



SAMSUNG

User Manual

ST10

This user manual includes detailed usage instructions for your camera. Please read this manual thoroughly.

 [Click a topic](#)

Quick reference

Contents

Basic functions

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Health and safety information

Always comply with the following precautions and usage tips to avoid dangerous situations and ensure peak performance of your camera.



Warning—situations that could cause injury to yourself or others



Caution—situations that could cause damage to your camera or other equipment



Note—notes, usage tips, or additional information



Safety warnings

Do not use your camera near flammable or explosive gases and liquids

Do not use your camera near fuels, combustibles, or flammable chemicals. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the camera or its accessories.

Keep your camera away from small children and pets

Keep your camera and all accessories out of the reach of small children and animals. Small parts may cause choking or serious injury if swallowed. Moving parts and accessories may present physical dangers as well.

Prevent damage to subjects' eyesight

Do not use the flash in close proximity (closer than 1 m/3 ft) to people or animals. Using the flash too close to your subject's eyes can cause temporary or permanent damage.

Handle and dispose of batteries and chargers with care

- Use only Samsung-approved batteries and chargers. Incompatible batteries and chargers can cause serious injuries or damage to your camera.
- Never dispose of batteries in a fire. Follow all local regulations when disposing of used batteries.
- Never place batteries or cameras on or in heating devices, such as microwave ovens, stoves, or radiators. Batteries may explode when overheated.



Safety precautions

Handle and store your camera carefully and sensibly

- Do not allow your camera to get wet—liquids can cause serious damage. Do not handle your camera with wet hands. Water damage to your camera can void your manufacturer's warranty.

- Do not expose the camera to direct sunlight or high temperatures for an extended period of time. Prolonged exposure to sunlight or extreme temperatures can cause permanent damage to your camera's internal components.
- Avoid using or storing your camera in dusty, dirty, humid, or poorly-ventilated areas to prevent damage to moving parts and internal components.
- Remove the batteries from your camera when storing it for an extended period of time. Installed batteries may leak or corrode over time and cause serious damage to your camera.
- Protect your camera from sand and dirt when using it on beaches or in other similar areas.
- Protect your camera and monitor from impact, rough handling, and excessive vibration to avoid serious damage.
- Exercise caution when connecting cables or adapters and installing batteries and memory cards. Forcing the connectors, improperly connecting cables, or improperly installing batteries and memory cards can damage ports, connectors, and accessories.
- Do not insert foreign objects into any of your camera's compartments, slots, or access points. Damage due to improper use may not be covered by your warranty.

Protect batteries, chargers, and memory cards from damage

- Avoid exposing batteries or memory cards to very cold or very hot temperatures (below 0° C/32° F or above 40° C/104° F). Extreme temperatures can reduce the charging capacity of your batteries and can cause memory cards to malfunction.
- Prevent batteries from making contact with metal objects, as this can create a connection between the + and – terminals of your battery and lead to temporary or permanent battery damage.
- Prevent memory cards from making contact with liquids, dirt, or foreign substances. If dirty, wipe the memory card clean with a soft cloth before inserting in your camera.
- Turn off the camera when inserting or removing the memory card.
- Do not bend, drop, or subject memory cards to heavy impact or pressure.
- Do not use memory cards that have been formatted by other cameras or by a computer. Reformat the memory card with your camera.
- Never use a damaged charger, battery, or memory card.

Use only Samsung-approved accessories

Using incompatible accessories may damage your camera, cause injury, or void your warranty.

Protect your camera's lens

- Do not expose the lens to direct sunlight, as this may discolour the image sensor or cause it to malfunction.
- Protect your lens from fingerprints and scratches. Clean your lens with a soft, clean, debris-free lens cloth.

Use earphones with caution

- Do not use earphones while driving, cycling, or operating motorised vehicles. Doing so may create a traffic hazard and may be illegal in some areas.
- Use only the minimum volume setting necessary. Listening to earphones at high volume can damage your hearing.



Important usage information

Allow only qualified personnel to service your camera

Do not allow unqualified personnel to service the camera or attempt to service the camera yourself. Any damage that results from unqualified service is not covered by your warranty.

Ensure maximum battery and charger life

- Overcharging batteries may shorten battery life. After charging is finished, disconnect the cable from your camera.
- Over time, unused batteries will discharge and must be recharged before use.
- Disconnect chargers from power sources when not in use.
- Use batteries only for their intended purpose.

Exercise caution when using the camera in humid environments

When transferring the camera from a cold environment to a warm and humid one, condensation can form on the delicate electronic circuitry and memory card. In this situation, wait for at least 1 hour until all moisture has evaporated before using the camera.


Check that the camera is operating properly before use

The manufacturer takes no responsibility for any loss of files or damage that may result from camera malfunction or improper use.

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Camera specifications or contents of this manual may be changed without prior notice due to upgrade of camera functions.

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Organisation of the user manual

Basic functions 10

Learn about your camera's layout, icons, and basic functions for shooting, and how to transfer files to and from your computer.

Extended functions 31

Learn how to take a photo by selecting a mode and how to record a video or voice memo.

Shooting options 40

Learn about the options you can set in Shooting mode.

Playback/Editing 61

Learn how to play back photos, videos, or voice memos and edit photos or videos. Also, learn how to connect your camera to your photo printer or TV.







Multimedia 77

Learn to use Multimedia modes: Music mode, Videos mode, and Text Viewer mode.

Appendixes 86

Refer to settings, error messages, specifications, and maintenance tips.

Indications used in this manual

Shooting mode	Indication
Smart Auto	
Auto	
Program	
Scene	SCENE
DIS	
Movie	
Multimedia	

Shooting mode icons

These icons indicate that a function is available in the corresponding modes. The **SCENE** mode may not support functions for all scenes.

e.g.)

Adjusting the exposure manually (EV)





Depending on the intensity of the ambient light, your photos may be too bright or dark. In these cases, you can adjust the exposure to get a better photo.



Darker (-) Neutral (0) Brighter (+)

Available in the Program, DIS, and Movie modes

Icons used in this manual

Icon	Function
	Additional information
	Safety warnings and precautions
[]	Camera buttons; for example: [Shutter] (represents the shutter button)
()	Page number of related information
→	The order of options or menus you must select to perform a step; for example: Select  → 
*†	Annotation

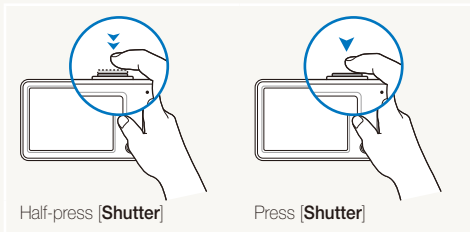
Abbreviations used in this manual

Abbreviation	Definition
ACB	Auto Contrast Balance
AEB	Auto Exposure Bracket
AF	Auto Focus
DIS	Digital Image Stabilisation
DPOF	Digital Print Order Format
EV	Exposure Value
WB	White Balance

Expressions used in this manual

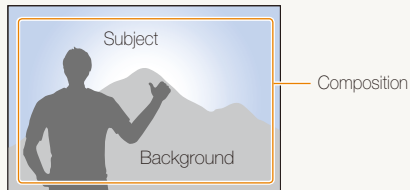
Pressing the shutter

- Half-press [**Shutter**]: press the shutter halfway down
- Press [**Shutter**]: press the shutter all the way down



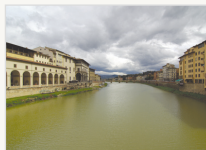
Subject, background, and composition

- **Subject**: the main object of a scene, such as a person, animal, or still life
- **Background**: the objects around the subject
- **Composition**: the combination of a subject and background

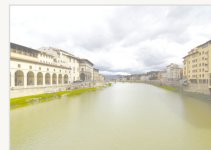


Exposure (Brightness)

The amount of light that enters your camera determines the exposure. You can alter the exposure with shutter speed, aperture value, and ISO speed. By altering the exposure, your photos will be darker or lighter.



Normal exposure



Overexposure (too bright)

Quick reference



Taking photos of people

- **SCENE** mode > Beauty Shot, Portrait, Children ▶ 33
- Red-eye, Red-eye Fix (to prevent or correct red-eye) ▶ 45
- Face Detection ▶ 50



Taking photos at night or in the dark

- **SCENE** mode > Night, Dawn, Firework ▶ 33
- Flash options ▶ 45
- ISO speed (to adjust the sensitivity to light) ▶ 46



Taking action photos

- Continuous, Motion Capture ▶ 58



Taking photos of text, insects, or flowers

- **SCENE** mode > Close Up, Text ▶ 33
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- White balance (to change the colour tone) ▶ 56



Adjusting the exposure (brightness)

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- EV (to adjust exposure) ▶ 53
- ACB (to compensate for subjects against bright backgrounds) ▶ 54
- Metering ▶ 55
- AEB (to take 3 photos of the same scene with different exposures) ▶ 58



Applying a different effect

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Reducing camera shake

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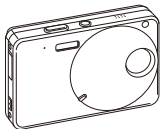
Basic functions

Learn about your camera's layout, icons, and basic functions for shooting, and how to transfer files to and from your computer.

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Unpacking

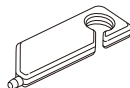
Check your product box for the following items.



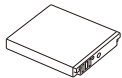
Camera



AC adapter/
USB cable



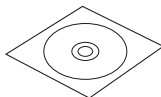
Touch pen



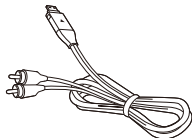
Rechargeable battery



Strap



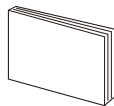
Software CD-ROM
(User manual included)



AV cable



Earphones

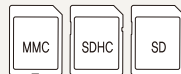


Quick Start Manual

Optional accessories



Camera case



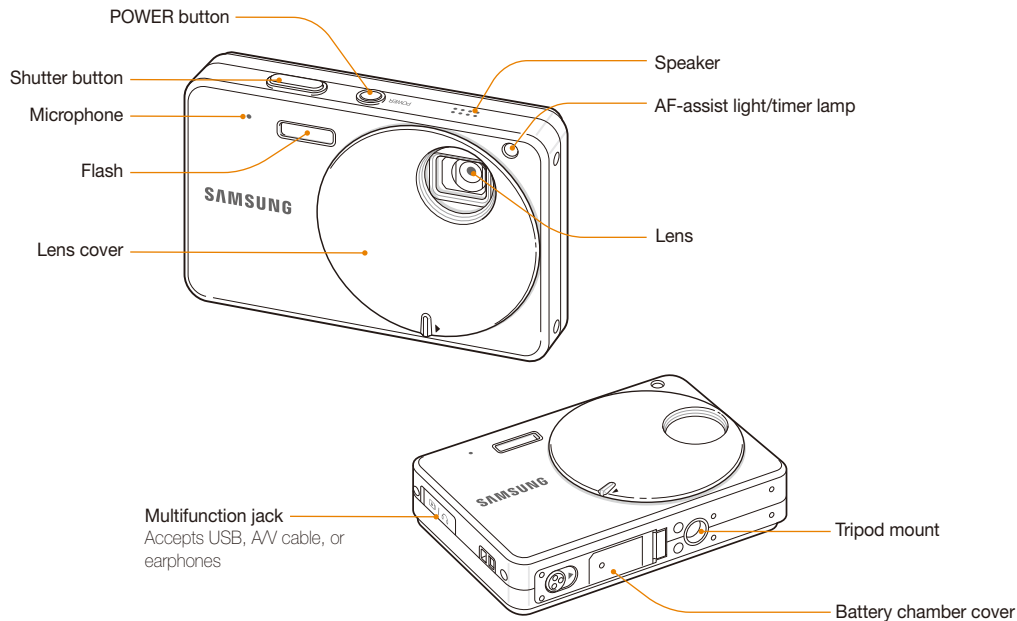
Memory cards

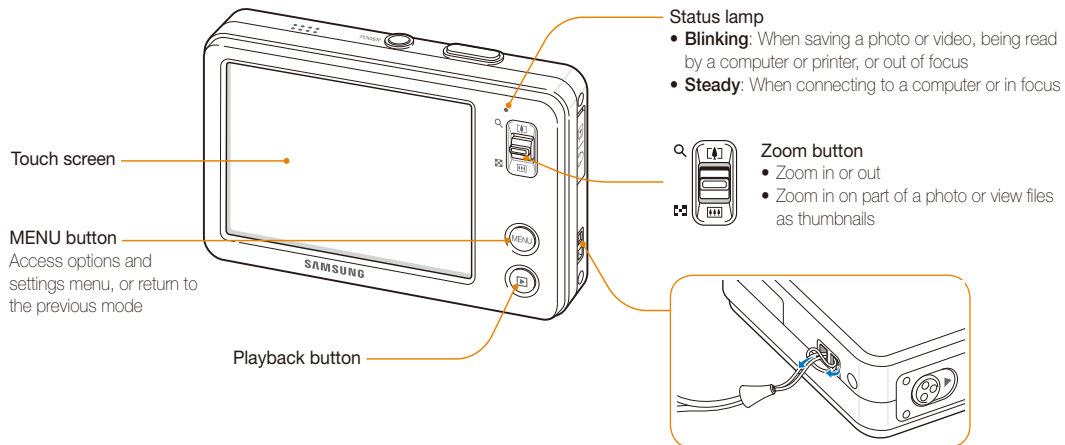


The illustrations may differ from your actual items.

Camera layout

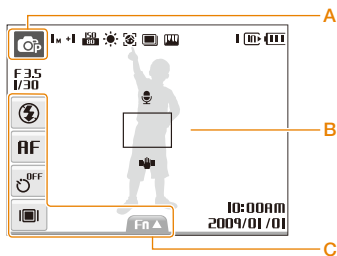
Before you start, familiarise yourself with your camera's parts and their functions.





Icons

The icons displayed will change according to the mode you select or the options you set.



A. Mode icons (touch)

Icon	Description
	Take a photo by letting the camera select a scene mode as it detects
	Take a photo quickly and easily with minimal settings
	Take a photo by setting options
SCENE	Take a photo with options preset for a specific scene
	Take a photo with options suitable for reducing camera shake
	Record a video
	Listen to MP3s, play videos, and view text files

B. Status icons

Icon	Description
F3.5 1/30	Aperture and shutter speed
M	Photo resolution
+I	Exposure value
ISO AUTO	ISO speed
	White balance
	Face detection
	Burst mode
	Image adjustment (sharpness, contrast, saturation)
I	Available number of photos
00:01:00	Available recording time
	Internal memory
	Memory card inserted
	• : Fully charged
	• : Partially charged
	• : Charging needed
X5.0 	Zoom ratio
	Voice memo
	Auto focus frame
	Camera shake
	Option set 1 (of 3)
10:00 AM 2009/01/01	Current date and time

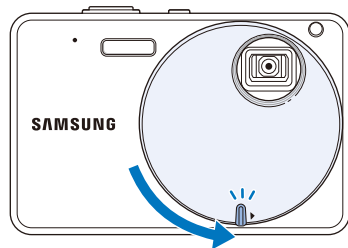
C. Option icons (touch)

Icon	Description
	Flash option
AF	Auto focus option
	Timer option
	Display type
Fn	Image setting options <ul style="list-style-type: none"> : Exposure value : White balance : ISO speed : Face tone : Face retouch : Focus area option : Face detection option : Photo resolution : Video resolution : Photo quality : Frame rate : Exposure with ACB : Video stabiliser : Metering option : Burst type : Style effect : Image adjustment (sharpness, contrast, saturation) : Long time shutter : Audio recording : Another row of options

Turning your camera on or off

Learn how to start your camera.

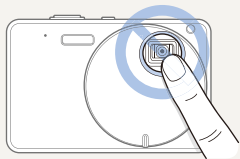
Rotate the lens cover to open. You can also press **[POWER]** with the lens cover open.



To turn off the camera, rotate the lens cover to close or press **[POWER]**.

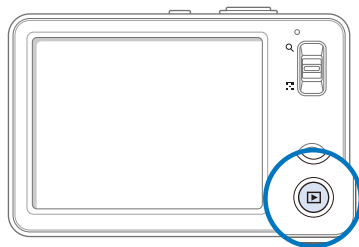


Do not rotate the lens cover by pulling on the opening. Doing this may cause you to touch or damage the lens.



Turning on your camera in Playback mode

Press **[Playback]**. The camera turns on and accesses Playback mode immediately.



Press and hold **[Playback]** to mute camera sounds.

Using the touch screen

Learn basic actions to use the touch screen. Use the supplied touch pen to touch or drag on the screen.



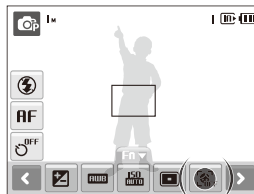
Do not use other sharp objects, such as pens or pencils, to touch the screen. Doing so may damage the screen.



- When you touch or drag on the screen, discolourations will occur. It is not a malfunction but a characteristic of the touch screen. Touch or drag lightly to reduce these annoying effects.
- The touch screen may not recognise your touches correctly when:
 - you touch multiple items at the same time
 - you use the camera in high humidity environments
 - you use the camera with an LCD protection film or another LCD accessory
- If you touch the screen with your finger, the screen may not recognise your input.

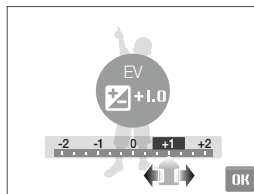
Touching

Touch an icon to select a menu or option.






Dragging

Drag left or right to scroll horizontally.



Using gestures

Perform certain functions by drawing commands on the touch screen.

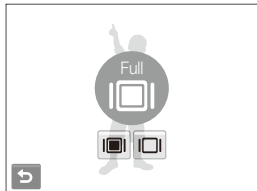
Gesture	Description
	<ul style="list-style-type: none">• Draw a horizontal bar from left to right to view the next file.• Draw a horizontal bar from right to left to view the previous file.
	
	Draw an X to delete a photo.




Setting the touch screen

Learn how to change the basic settings for the touch screen according to your preferences.

Selecting a display type


In Shooting or Playback mode, select  → an option.

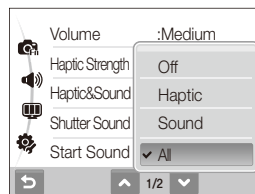


Option	Description
	Full: Display the name of an option when you select an icon.
	Basic: Display icons without the name of an option. This option is available only in Playback mode.
	Hide: Hide icons on the screen if you perform no operations for 3 seconds (touch the screen to display icons again).

Setting the touch vibration or sound

Set whether your camera vibrates or emits a specified sound when you touch on the screen.

- 1 In Shooting or Playback mode, press **[MENU]**.
- 2 Select  → **Haptic&Sound**.




- 3 Select an option.

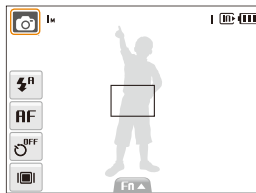
Option	Description
Off	The camera will neither vibrate nor sound.
Haptic	The camera will vibrate.
Sound	The camera will sound.
All	The camera will vibrate and sound simultaneously.

- 4 Press **[MENU]** to return to the previous mode.

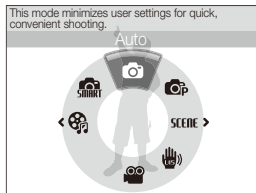
Taking photos

Learn basic actions to take photos easily and quickly in the Auto mode.

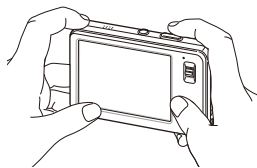
- 1 Make sure that the camera is in the  mode (Auto), the camera's default shooting mode.



- If not, select the mode icon → .

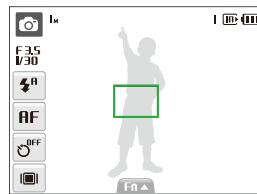


- 2 Align your subject in the frame.



- 3 Half-press **[Shutter]** to focus.

- A green frame means the subject in focus.



- 4 Press **[Shutter]** to take a photo.

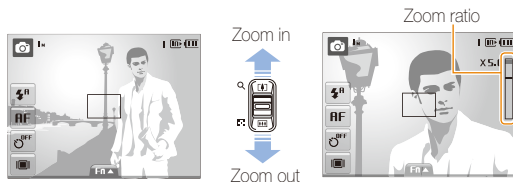


See page 29 for tips to get clearer photos.

Zooming

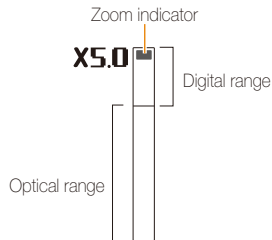
You can shoot close-up photos by adjusting the zoom. Your camera has a 3X optical zoom and 5X digital zoom. By using both, you can zoom in up to 15 times.

Push **[Zoom]** up to zoom in on your subject. Push **[Zoom]** down to zoom out.



Digital zoom

If the zoom indicator is in the digital range, your camera is using the digital zoom. The picture quality may deteriorate when you use the digital zoom.



- The digital zoom is not available when using **SCENE** (in some scenes), and **Face Detection** modes and when used with **Face Detection**.
- It may take longer to save a photo when using the digital zoom.

Transferring files to your computer (for Windows)

Transfer files by connecting your camera to your PC.

Installing programs

Hardware and software requirements

Item	Requirements
CPU	Pentium III 500 MHz or better (Pentium III 800 MHz or better recommended)
RAM	256 MB or more (512 MB or more recommended)
OS	Windows 2000/XP/Vista
Hard disk capacity	250 MB or more (1 GB or more recommended)
Others	<ul style="list-style-type: none">• USB port• CD-ROM drive• 1024 x 768 pixels, 16-bit colour display compatible monitor (24-bit colour display recommended)• Microsoft Direct X 9.0C or later



- Using a self-assembled PC or a PC and OS that are not supported may void your warranty.
- These programs may not work properly on 64-bit Edition of Windows XP and Vista.

Programs contained on the CD

Program	Purpose
Samsung Master	Edit photos and videos.
Samsung Converter*	Convert videos so that they can be played on the camera.
Xvid Codec	Code and decode video files.
Adobe Reader	View the user manual.

* Pentium IV or better is recommended to use the program.

- 1 Insert the installation CD in a compatible CD-ROM drive.
- 2 When the setup screen is displayed, click **Samsung Digital Camera Installer** to start installation.



- 3 Click **Preview** to check if a movie sample plays properly.
- 4 If the sample plays properly, select **Do not install** and click **Next**.
 - If it does not, select **Install the codec program** and click **Install**. The codec program is installed.
- 5 Select programs to install and follow the onscreen instructions.
- 6 Click **Exit** to complete the installation and restart your computer.

Transferring files to your PC

Once you connect the camera to your PC, the camera will be recognised as a removable drive.

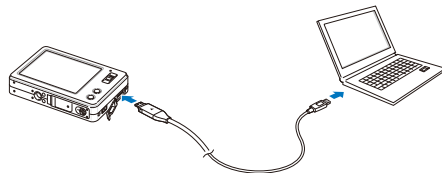


The battery will be charged while the camera is connected to a PC with the USB cable.

- 1 Connect your camera to your PC with the USB cable.



You must plug the end of the cable with the indicator light (▲) into your camera. If the cable is reversed, it may damage your files. The manufacturer is not responsible for any loss of data.



- 2 Turn on the camera.
 - The computer recognises the camera automatically.




If the camera fails to connect, a pop-up window will appear. Select **Computer**.

- 3 On your PC, select **My Computer** → **Removable Disk** → **DCIM** → **100SSCAM**.
- 4 Select the files you want and drag or save them to your PC.

Disconnecting the camera (for Windows XP)

The way to disconnect the USB cable for Windows 2000/Vista is similar.

- 1 If the status lamp on your camera is blinking, wait until it stops.
- 2 Click  on the tool bar at the bottom right of your PC screen.



- 3 Click the pop-up message.
- 4 Remove the USB cable.

Transferring multimedia files to the camera

Requirements

Your camera will support the following file types.

Multimedia mode	Supported type
Music	<ul style="list-style-type: none"> • File type: MP3 (MPEG-1/2/2.5 Layer 3) • Bit rate: 48 - 320 Kbps (including VBR)
Videos	<p>File type: PMP SDC*</p>
Text Viewer	<ul style="list-style-type: none"> • File type: TXT (up to 99,999 pages) • Encoding type <ul style="list-style-type: none"> - Windows: ANSI (Windows 98 or later)/Unicode/Unicode (Big-Endian)/UTF-8 (Windows 2000/XP) - Mac: ANSI, Unicode (UTF-16) • Language†: English, Korean, French, German, Spanish, Italian, Chinese, Taiwanese, Japanese, Russian, Portuguese, Dutch, Danish, Swedish, Finnish, Bahasa, Polish, Hungarian, Czech, Turkish

* A file type that is converted with Samsung Converter (p. 25)

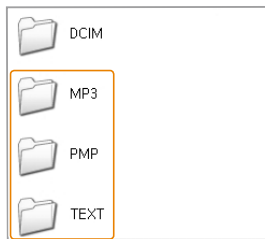
† Subject to change without prior notice



- Duplicating multimedia files may violate copyright laws.
- Without permission of the manufacturer, you cannot duplicate, modify and/or distribute any part or all MP3 or PMP files provided in the internal memory.

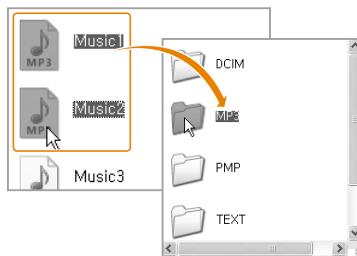
Transferring multimedia files to the camera

- 1 Connect the camera to your PC. (p. 22)
- 2 On your PC, select **My Computer** → **Removable Disk**.
- 3 Create new folders named "MP3," "PMP," and "TEXT."



4 Copy multimedia files to the corresponding folders.

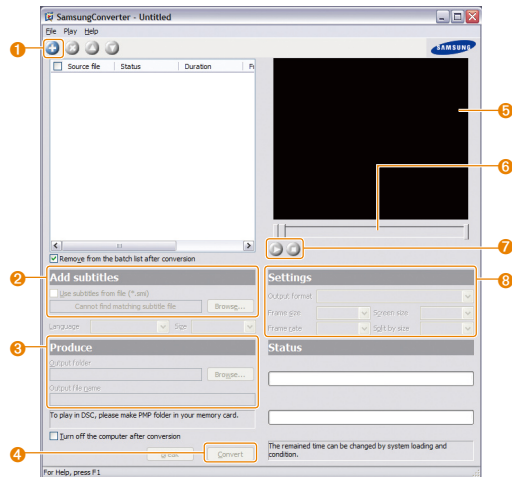
- MP3 files to MP3 folder
- SDC files to PMP folder
- TXT files to TEXT folder



- Multimedia files cannot be played or viewed if the folder names are incorrect.
- Subfolders nested directly within the MP3, PMP and TEXT folders can be created. Files saved in deeply-nested subfolders may not be played or viewed.
- You can save up to 200 files or 100 subfolders in each folder. You can save up to 200 total files and subfolders in combination.
- File names or folder names with more than 120 characters (60 characters for 2-byte languages, such as Chinese or Korean) will not appear in the playlist.

Using Samsung Converter

Convert videos so that they can be played on the camera. For details, see the Help menu.



No.	Description
1	Add video files (AVI, WMV, ASF, MPG [MPEG-1]).
2	Add subtitles.
3	Specify the folder path and file name for the converted file.
4	Convert the file.
5	Preview.
6	Cropping slider; move to the point where you want the video to begin or end.
7	Pause and resume playback.
8	Set the frame size and rate or the file size limit.

Using Samsung Master

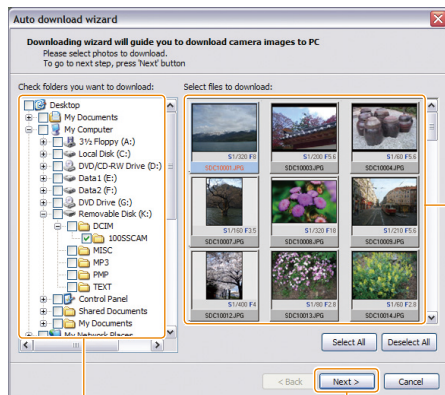
You can download files or edit photos or videos stored on your PC. For details, see the Help menu.

Downloading files using Samsung Master

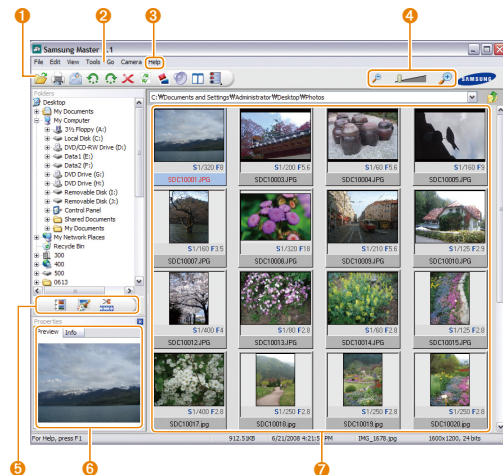
When you connect the camera to the PC, a window for downloading files automatically appears.

- 1 Select the files you want to download.
- 2 Click **Next** and follow the onscreen instructions.

No.	Description
1	Select a location for downloaded files.
2	Click to download the selected files.
3	Thumbnails of files; click an image to download.



Using the Samsung Master Interface



No.	Description
1	Toolbar
2	Menu
3	Click for more information about the program.
4	Click to enlarge or reduce the thumbnails in the list.
	Change the mode.
5	<ul style="list-style-type: none"> View mode Edit mode for photos Edit mode for videos
6	Preview information about the selected file.
7	The photos in the selected folder; double-click to switch to full-screen view.

Transferring files to your computer (for Mac users)

When you connect the camera to a Macintosh computer, the computer will recognise the device automatically. You can transfer files directly from the camera to the computer without installing any programs.



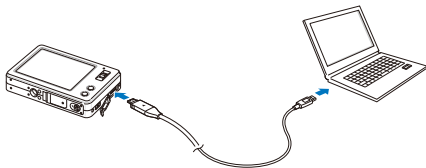
- Mac OS X version 10.3 or later is supported.
- Supported file types and languages are shown on page 23.
- To use PMP files, you must first convert the files using Samsung Converter on a Windows computer.

Transferring files to your computer

- 1 Connect your camera to a Macintosh computer with the USB cable.



You must plug the end of the cable with the indicator light (▲) into your camera. If the cable is reversed, it may damage your files. The manufacturer is not responsible for any loss of data.



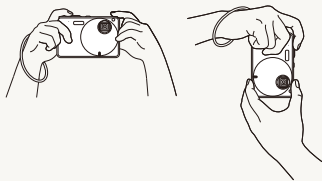
- 2 Turn on the camera.
 - The computer recognises the camera automatically and a removable disk icon will be displayed.
- 3 Double-click the removable disk icon.
- 4 Transfer photos or videos to the computer.

Transferring multimedia files to the camera

- 1 Connect the camera to a Macintosh computer with the USB cable.
- 2 Turn on your camera.
 - The computer recognises the camera automatically and a removable disk icon will be displayed.
- 3 Double-click the removable disk icon.
- 4 Create new folders named "MP3," "PMP," and "TEXT."
- 5 Copy multimedia files to the corresponding folders.
 - MP3 files to MP3 folder
 - SDC files to PMP folder
 - TXT files to TEXT folder

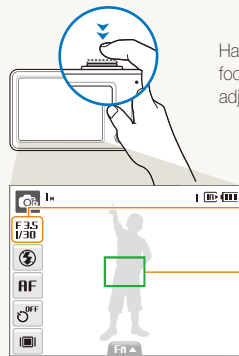
Tips for getting a clearer photo

Holding your camera correctly



Make sure nothing is blocking the lens.

Half-pressing the shutter button



Half-press [Shutter] and adjust the focus. Focus and exposure will be adjusted automatically.


The aperture value and shutter speed are automatically set.

Focus frame

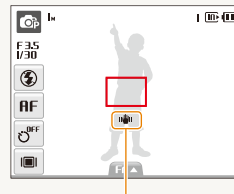
- Press [Shutter] to take the photo if displayed in green.
- Change the frame and half-press [Shutter] again if displayed in red.

Reducing camera shake



Select the  mode to reduce camera shake digitally. (p. 36)

When is displayed



Camera shake

When shooting in the dark, avoid setting the flash option to **Slow Sync** or **Off**. The aperture remains open longer and it may be harder to hold the camera still.

- Use a tripod or set the flash option to **Fill in**. (p. 45)
- Set ISO speed options. (p. 46)



Preventing your subject from being out of focus

It may be difficult to get your subject in focus when:

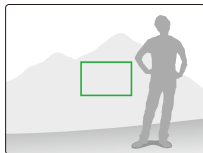
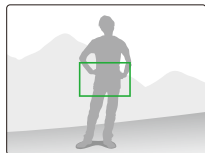
- there is little contrast between the subject and background
(When your subject is wearing a colour of clothing that is similar to the background)
- the light source behind the subject is too bright
- the subject is shiny
- the subject includes horizontal patterns, such as blinds
- the subject is not positioned in the centre of the frame



Use the focus lock

Half-press **[Shutter]** to focus. When the subject is in focus, you can reposition the frame to change the composition.

When you are ready, press **[Shutter]** to take your photo.

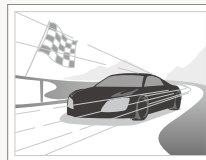


- When you take photos in low light



Turn on the flash.
(p. 45)

- When subjects are moving fast



Use the continuous
or motion capture
function. (p. 58)

Extended functions

Learn how to take a photo by selecting a mode and how to record a video or voice memo.

Shooting modes	32
Using the Smart Auto mode	32
Using the Scene mode	33
Using the Beauty Shot mode	33
Using the frame guide	34
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Using the Program mode	36
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Recording voice memos	39
Recording a voice memo	39
Adding a voice memo to a photo	39

Shooting modes

Take photos or record videos by selecting the best shooting mode for the conditions.

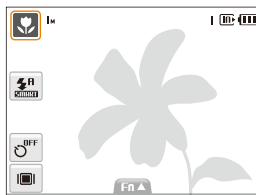
Using the Smart Auto mode



In this mode, your camera automatically chooses the appropriate camera settings based on a detected type of scene. It will be helpful if you are not familiar with the camera settings for various scenes.








1 In Shooting mode, select  → .

2 Align your subject in the frame.

- The camera selects a scene automatically. An appropriate mode icon will appear at the top left of the screen.





Icon	Description
	Appears when taking photos of landscapes.
	Appears when taking photos of bright backgrounds.
	Appears when taking photos of landscapes at night. This is available only when the flash is off.
	Appears when taking portraits at night.

Icon	Description
	Appears when taking photos of landscapes with backlighting.
	Appears when taking portraits with backlighting.
	Appears when taking portraits.
	Appears when taking close-up photos.
	Appears when taking close-up photos of text.
	Appears when the camera and subject are stable for a while.
	Appears when taking photos of actively moving subjects.

3 Half-press **[Shutter]** to focus.


4 Press **[Shutter]** to take the photo.

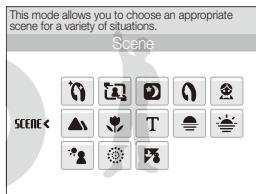


- If the camera does not recognise a proper scene mode,  will not change and the default settings will be used.
- Even if there is a face detected, the camera may not select a portrait mode depending on the subject's position or lighting.
- The camera may not select the correct scene depending on shooting environments, such as camera shake, lighting and distance to the subject.
- Even if you use a tripod, the  mode may not be detected depending on the subject's movement.

Using the Scene mode

Take a photo with options preset for a specific scene.

- 1 In Shooting mode, select  → **SCENE**.
- 2 Select a scene.



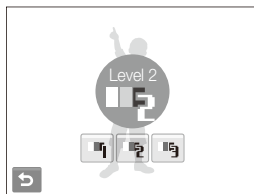
- For the Beauty Shot mode, see "Using the Beauty Shot mode."
- For the Frame Guide mode, see "Using the frame guide" on page 34.
- For the Night mode, see "Adjusting the exposure in the Night mode" on page 35.

- 3 Align your subject in the frame and half-press **[Shutter]** to focus.
- 4 Press **[Shutter]** to take the photo.

Using the Beauty Shot mode

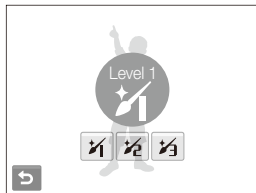
Take a photo of a person with options to hide facial imperfections.

- 1 In Shooting mode, select  → **SCENE** → .
- 2 To make the subject's skin tone appear lighter (face only), select **Fn▲** →  → an option.
 - Select a higher setting to make skin tone appear lighter.



3 To hide facial imperfections, select **Fn▲** →  → an option.

- Select a higher setting to hide a greater number of imperfections.



4 Align your subject in the frame and half-press **[Shutter]** to focus.



5 Press **[Shutter]** to take the photo.



The focus distance will be set to **Auto Macro**.

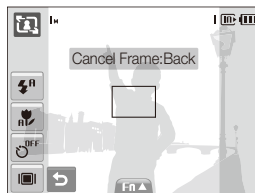
Using the frame guide

When you want another person to take a photo of you, you can compose the scene with the frame guide feature. The frame guide will help the other person take a photo of you by showing the part of the pre-composed scene.

1 In Shooting mode, select  → **SCENE** → .

2 Align your subject in the frame and press **[Shutter]**.

- Transparent guides will appear on the left and right of the frame.



3 Ask another person to take a photo.

- The person must align the subject in the frame by using the guides, and then press **[Shutter]** to take the photo.

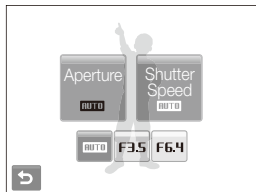
4 To cancel the guides, select .

Adjusting the exposure in the Night mode

In the Night mode, you can catch brief flashes of light as curved streaks by extending the exposure. Use a slow shutter speed to extend the time until the shutter closes. Increase the aperture value to prevent overexposure.

1 In Shooting mode, select → **SCENE** → .

2 Select **Fn**▲ → **L T** → **Aperture**.



3 Select an option.

4 Select **Fn**▲ → **L T** → **Shutter Speed**.

5 Select a value to adjust the shutter speed and select **OK**.

6 Align your subject in the frame and half-press **[Shutter]** to focus.

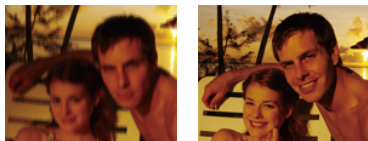
7 Press **[Shutter]** to take the photo.



Use a tripod to prevent your photos from blurring.

Using the DIS mode

Reduce camera shake and prevent blurred photos with Digital Image Stabilisation (DIS) functions.



Before correction

After correction

- 1 In Shooting mode, select → .
- 2 Align your subject in the frame and half-press **[Shutter]** to focus.
- 3 Press **[Shutter]** to take the photo.

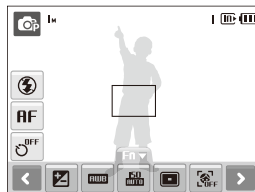


- The digital zoom will not work in this mode.
- If your subject is moving rapidly, the photo may be blurry.

Using the Program mode

Set various options (except for shutter speed and aperture value) in the Program mode.

- 1 In Shooting mode, select → .
- 2 Set options. (For a list of options, refer to “Shooting options.”)



- 3 Align your subject in the frame and half-press **[Shutter]** to focus.
- 4 Press **[Shutter]** to take the photo.

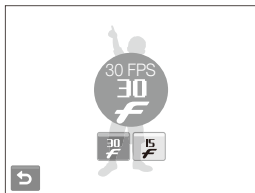
Recording a video

Record videos of up to 2 hours in length. The recorded video is saved as an MPEG-4.AVI file.



The zoom sound may be recorded if you use the zoom while recording a video.

- 1 In Shooting mode, select → .
- 2 Select **Fn**▲ → → a frame rate (the number of frames per second).
 - You can change the frame rate only for 640 x 480 or 320 x 240 resolution. (p. 41)
 - As the number of frames increases, action appears more natural, but the file size is increased.



- 3 Select **Fn**▲ → → a sound option.

Option	Description
	Off: Record a video without sound.
	On: Record a video with sound.

- 4 Select **Fn**▲ → → a stabiliser option.

Option	Description
	Off: Record a video with the image stabilisation function turned off.
	On: Record a video with the image stabilisation function turned on to prevent your video from blurring.

- 5 Set other options as desired. (For options, refer to “Shooting options.”)
- 6 Press [**Shutter**] to start recording.
- 7 Press [**Shutter**] again to stop recording.

To pause recording

The camera allows you to pause temporarily while recording a video. With this function, you can record your favourite scenes as a single video.

Select **||** to pause while recording. Select it again to resume.



Recording voice memos



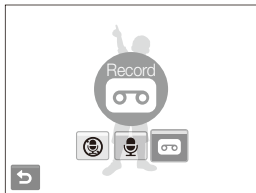
Learn how to record a voice memo that you can play back at any time. You can add a voice memo to a photo as a short reminder of shooting conditions.



You will get the best sound quality when recording 40 cm away from the camera.

Recording a voice memo

- 1 In Shooting mode, select **Fn**▲ → ➤ → → .



- 2 Press **[Shutter]** to record.
 - Select to pause and to resume.
 - The available recording time will be displayed on the top of the screen.
 - You can record voice memos of up to 10 hours in length.
- 3 Press **[Shutter]** to stop.
- 4 Select to switch to Shooting mode.

Adding a voice memo to a photo

- 1 In Shooting mode, select **Fn**▲ → ➤ → → .



- 2 Align your subject in the frame and take a photo.
 - You will begin recording a voice memo right after taking the photo.
- 3 Record a short voice memo (10 seconds maximum).
 - Press **[Shutter]** to stop recording a voice memo.

Shooting options

Learn about the options you can set in Shooting mode.

Selecting a resolution and quality	41	Adjusting brightness and colour	53
Selecting a resolution	41	Adjusting the exposure manually (EV)	53
Selecting image quality	42	Compensating for backlighting (ACB)	54
Using the timer	43	Changing the metering option	55
Shooting in the dark	45	Selecting a light source (White balance)	56
Preventing red-eye	45	Using burst modes	58
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Using face detection	50		
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Taking a self portrait shot	51		
Taking a smile shot	51		
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Selecting a resolution and quality

Learn how to change the image resolution and quality settings.

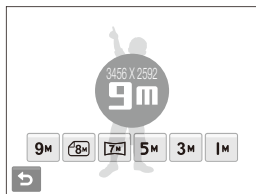
Selecting a resolution



As you increase the resolution, your photo or video will include more pixels, so it can be printed on larger paper or displayed on a larger screen. When you use a high resolution, the file size will also increase.

When taking a photo:

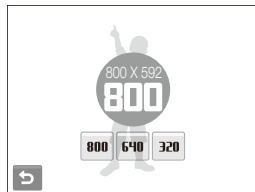
- 1 In Shooting mode, select **Fn▲** → **9M**. (In some modes, select **Fn▲** → **➤** → **9M**.)
- 2 Select an option.



Option	Description
9M	3456 X 2592 : Print on A2 paper.
8M	3456 X 2304 : Print on A3 paper in wide ratio (3:2).
7M	3456 X 1944 : Print on A3 paper in panorama ratio (16:9).
5M	2592 X 1944 : Print on A4 paper.
3M	2048 X 1536 : Print on A5 paper.
1M	1024 X 768 : Attach to email.

When recording a video:

- 1 In the mode, select **Fn▲** → **800**.
- 2 Select an option.

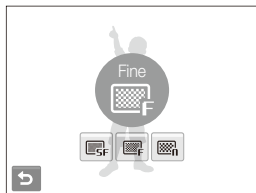





Option	Description
800	800 X 592 : Play back on an SDTV.
640	640 X 480 : Play back on a general TV.
320	320 X 240 : Post on a web page.

Selecting image quality SCENE

Photos you take are compressed and saved in JPEG format.
Higher quality images will result in larger sizes.

- 1 In Shooting mode, select **Fn**▲ → . (In some modes, select **Fn**▲ →  → .)
- 2 Select an option.



Option	Description
	Super Fine
	Fine
	Normal

The options may differ depending on the shooting mode.

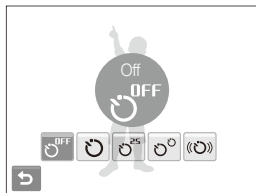
Using the timer



Learn how to set the timer to delay shooting.

1 In Shooting mode, select **Off**.

2 Select an option.



Option	Description
	Off: The timer is not active.
	10 Sec: Take a photo in 10 seconds.
	2 Sec: Take a photo in 2 seconds.
	Double: Take a photo in 10 seconds and take another in 2 seconds.
	Motion Timer: Detect your movement and then take a photo. (p. 44)

The options may differ depending on the shooting mode.

3 Press **[Shutter]** to start the timer.

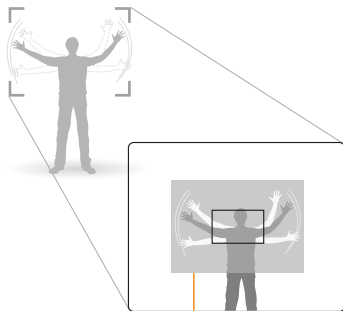
- The AF-assist light/timer lamp blinks. The camera will automatically take a photo at the specified time.



- Select the timer icon to cancel the timer.
- Depending on the selected face detection option, the timer is not available or some timer options are not available.

Using the motion timer

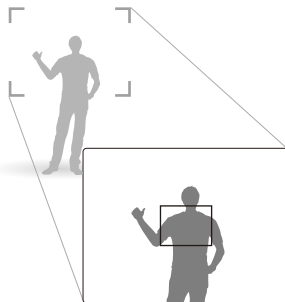
- 1 In Shooting mode, select $\text{OFF} \rightarrow \text{ON}$.
- 2 Press [Shutter].
- 3 Stand within 3 m from the camera within 6 seconds after pressing [Shutter].
- 4 Make a motion, such as waving your arms, to activate the timer.
 - The AF-assist light/timer lamp will start to blink rapidly when the camera detects you.



The detection range
of the motion timer

- 5 Pose for your photo while the AF-assist light/timer lamp is blinking.

- The AF-assist light/timer lamp will stop blinking just before the camera automatically takes a photo.



The motion timer may not work when:

- you are more than 3 m away from the camera
- your movements are too subtle
- there is too much light or backlight

Shooting in the dark

Learn how to take photos at night or in low light conditions.

Preventing red-eye




If the flash fires when you take a photo of a person in the dark, a red glow may appear in the eyes. To prevent this, select **Red-eye** or **Red-eye Fix**.

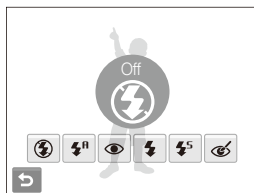







Using the flash







Use the flash when taking photos in the dark or when you need more light on your photos.

- 1 In Shooting mode, select .
- 2 Select an option.



Option	Description
	Off: <ul style="list-style-type: none">• The flash will not fire.• Camera shake warning () will be displayed when shooting in low light.
	Auto: The camera will select a proper flash setting for the detected scene in the  mode.
	Auto: The flash fires automatically when the subject or background is dark.

Option	Description
	Red-eye*: <ul style="list-style-type: none"> The flash fires when the subject or background is dark. The camera reduces red-eyes.
	Fill in: <ul style="list-style-type: none"> The flash always fires. Light intensity is adjusted automatically.
	Slow Sync: <ul style="list-style-type: none"> The flash fires and the shutter stays open longer. Select this when you want to capture ambient light to reveal more details in the background. Use a tripod to prevent your photos from blurring.
	Red-eye Fix*: <ul style="list-style-type: none"> The flash fires when the subject or background is dark. The camera corrects red-eyes through its advanced software analysis.

The options may differ depending on the shooting mode.

* There is an interval between two bursts of the flash. Do not move until the flash fires a second time.



- Flash options are not available if you set burst options or select **Self-Portrait** or **Blink Detection**.
- Make sure that your subjects are within the recommended distance from the flash. (p. 98)
- If there is reflected light or much dust in the air, tiny spots may appear on your photo.

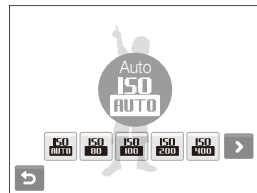
Adjusting the ISO speed

The ISO speed is the measure of a film's sensitivity to light as defined by the International Organisation for Standardisation (ISO). The higher ISO speed you select, the more sensitive to light your camera becomes. With a higher ISO speed, you can get a better photo without using the flash.

1 In Shooting mode, select **Fn**  **ISO AUTO**.

2 Select an option.

- Select **ISO AUTO** to use an appropriate ISO speed based on the brightness of the subject and lighting.



The higher ISO speed you select, the more image noise you may get.

Changing the camera's focus

Learn how to adjust the camera's focus according to your subjects.

Using macro



Use macro to take close-up photos of subjects, such as flowers or insects. Refer to macro options in “Using auto focus.”



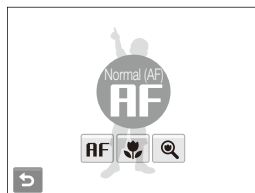
- Try to hold the camera very still to prevent blurry photos.
- Turn off the flash if the distance to the subject is less than 40 cm.

Using auto focus



To take sharp photos, select the appropriate focus according to your distance from the subject.

- 1 In Shooting mode, select **AF**.
- 2 Select an option.

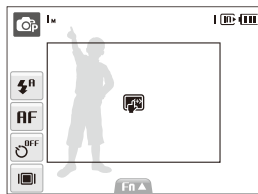


Option	Description
AF	Normal (AF): Focus on a subject farther than 80 cm.
	Auto Macro: Focus on a subject farther than 5 cm (farther than 50 cm when using zoom).
	Macro: Focus on a subject 5 - 80 cm (50 - 80 cm when using zoom).
	Super Macro: Focus on a subject between 1 to 5 cm.

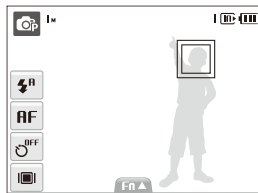
The options may differ depending on the shooting mode.

Using smart touch focus SCENE

Smart touch AF allows you to track and auto focus on your subject, even when you are moving. Simply set the focus area to **Smart Touch AF** (p. 49) and touch the subject you want to track in the touch area (indicated by a frame).



A focus frame will appear on the subject and will follow the subject as you move the camera.



The colour of the focus frame indicates the tracking and focus status:

- White: Tracking the subject
- Green: Auto focus when you half-press [Shutter]




- If you do not touch any area on the screen, the focus frame will appear in the centre of the screen.
- Tracking a subject may fail when:
 - the subject is too small
 - the subject moves
 - the subject is backlit or you are shooting in a dark place
 - colours on the subject and the background are the same
 - patterns on the subject and the background are the same
 - the camera shakes excessively

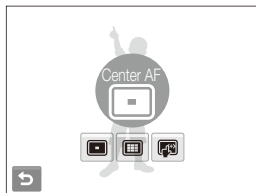
In these cases, the focus frame will appear as a white single-line frame.




- If the camera fails to track the subject, you must reselect the subject to track.
- If the camera fails to fix the focus, the focus frame will change to a red single-line frame.

Adjusting the focus area SCENE

You can get clearer photos by selecting an appropriate focus area according to your subject's location in the scene.

- 1 In Shooting mode, select **Fn**▲ → .
- 2 Select an option.



Option	Description
	Center AF: Focus on the centre (suitable when subjects are located in the centre).
	Multi AF: Focus on one or more of 9 possible areas (when the digital zoom is in use, the focus will change to Center AF).
	Smart Touch AF: Focus on and track the subject that you touch on the screen.

The options may differ depending on the shooting mode.

Using face detection



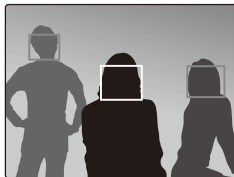
If you use face detection options, your camera can automatically detect a human face. When you focus on a human face, the camera adjusts the exposure automatically. Take photos quickly and easily by using **Blink Detection** to detect closed eyes or **Smile Shot** to capture a smiling face. You can also use **Smart Face Recognition** to register faces and prioritise the focus on them.



- In some scene modes, face detection is unavailable.
- Face detection may not be effective when:
 - the subject is far from the camera (The focus frame will appear orange for **Smile Shot** and **Blink Detection**)
 - it is too bright or too dark
 - the subject is not facing the camera
 - the subject is wearing sunglasses or a mask
 - the subject is in backlighting or the lighting condition is unstable
 - the subject's facial expression changes remarkably
- Face detection is not available when using a photo style.
- When you use the face detection option, the digital zoom will not work.
- Depending on the selected face detection option, the timer is not available or some timer options are not available.

Detecting faces

Your camera automatically detects human faces (up to 10 human faces).



In Shooting mode, select **Fn** → **Diff** → **Face**. The closest face appears in a white focus frame and the rest of the faces appear in gray focus frames.





The closer you are to the subject, the quicker your camera will detect faces.

Taking a self portrait shot

Take photos of yourself. The focus distance will be set to close-up and your camera will emit a beep.



- 1 In Shooting mode, select **Fn**▲ →  → .
- 2 When you hear a quick beep, press **[Shutter]**.



To turn the beep on or off, select **Self-Portrait** in the sound settings. (p. 88)

Taking a smile shot

The camera automatically releases the shutter when it detects a smiling face.



In Shooting mode, select **Fn**▲ →  → . When your subject smiles broadly, your camera can detect the smile more easily.

Detecting eye blinking

If your camera detects closed eyes, it will automatically take 2 photos in succession.



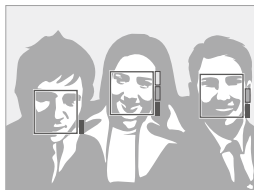
In Shooting mode, select **Fn**▲ →  → .



- Hold your camera still while **"Capturing"** is displayed on the screen.
- When blink detection fails, **"Picture taken with eyes closed."** message appears. Take another photo.

Using smart face recognition

The camera automatically registers faces that you frequently photograph (up to 10 people). This feature will automatically prioritise the focus on those faces. This feature is available only when you use a memory card.



In Shooting mode, select **Fn**   . The priority of the faces will be shown by the level indicator next to the frames.



- The camera may recognise and register faces incorrectly depending on lighting conditions, remarkable changes in the subject's pose or face, and whether or not the subject is wearing glasses.
- The camera may recognise faces and display the level indicator, even though they have not been registered.
- You can view registered faces in order of priority while in Playback mode. (p. 63) Even though faces are registered successfully, they may not be classified in Playback mode.
- If the camera recognises a new face when there are 10 registered faces, it will replace the face in the lowest priority with the new one.
- The camera can recognise up to 3 faces in one scene.
- When the camera does not recognise faces, it will still detect the faces without prioritising them.
- You can manually register faces from photos you have already taken. (p. 63)

Adjusting brightness and colour

Learn how to adjust the brightness and colour for better image quality.

Adjusting the exposure manually (EV)

Depending on the intensity of the ambient light, your photos may be too bright or dark. In these cases, you can adjust the exposure to get a better photo.



Darker (-)



Neutral (0)

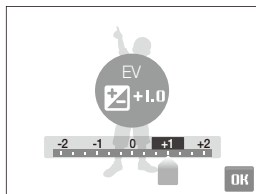


Brighter (+)

1 In Shooting mode, select **Fn**  .

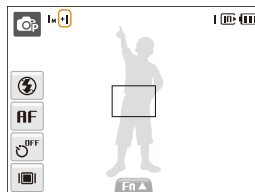
2 Select a value to adjust the exposure.

- +: brighter, -: darker



3 Select **OK**.

- The adjusted exposure value will appear as shown below.



- Once you adjust the exposure, the setting will remain the same. You may need to change the exposure value later to avoid overexposure or underexposure.
- If you cannot decide on an appropriate exposure, select **AEB** (Auto Exposure Bracket). The camera takes photos with different exposures: normal, underexposed, and overexposed. (p. 58)

Compensating for backlighting (ACB)

When the light source is behind your subject or there is high contrast between your subject and the background, your subject is likely to appear dark in the photo. In this case, set the Auto Contrast Balance (ACB) option.




Without ACB





With ACB

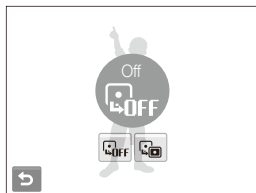
Option	Description
 OFF	Off: ACB is off.
 ON	On: ACB is on.



- The ACB feature is always on in the  mode.
- This feature is not available when **Continuous**, **Motion Capture**, or **AEB** is in use.

1 In Shooting mode, select **Fn**   OFF.

2 Select an option.

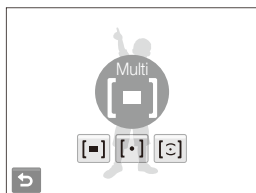



Changing the metering option



The metering mode refers to the way in which a camera measures the quantity of light. The brightness and lighting of your photos will vary depending on the metering mode you select.

1 In Shooting mode, select **Fn**▲ → ➤ → [M]. (In the  mode, select [M].)

2 Select an option.



Option	Description
	Multi: <ul style="list-style-type: none"> Your camera divides the scene into several areas, and then measures the light intensity of each area. Suitable for general photos.

Option	Description
	Spot: <ul style="list-style-type: none"> Your camera measures only the light intensity of the very centre of the frame. If a subject is not in the centre of the scene, your photo may be improperly exposed. Suitable for a subject with backlighting.
	Center-weighted: <ul style="list-style-type: none"> Your camera averages the meter reading of the entire frame with emphasis placed on the centre. Suitable for photos with subjects in the centre of the frame.

Selecting a light source (White balance)



The colour of your photo depends on the type and quality of the light source. If you want the colour of your photo to be realistic, select an appropriate lighting condition to calibrate the white balance, such as Auto WB, Daylight, Cloudy, or Tungsten.



AWB (Auto WB)



 (Daylight)



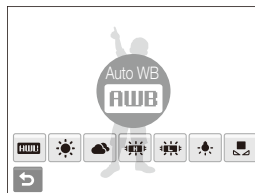
 (Cloudy)










 (Tungsten)


1 In Shooting mode, select **Fn**  **AWB**.

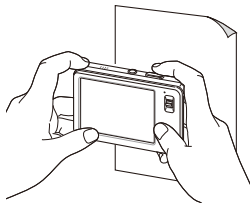
2 Select an option.



Icon	Description
	Auto WB: Use automatic settings depending on the lighting conditions.
	Daylight: Select when taking outdoor photos on a sunny day.
	Cloudy: Select when taking outdoor photos on a cloudy day or in shadows.
	Fluorescent_H: Select when shooting under a daylight fluorescent or three-way fluorescent light.
	Fluorescent_L: Select when shooting under white fluorescent light.
	Tungsten: Select when taking indoor photos under incandescent bulbs or halogen lamps.
	Custom Set: Use your pre-defined settings.

Defining your own white balance

- 1 In Shooting mode, select **Fn▲** → **AWB** → .
- 2 Aim the lens at a piece of white paper.



- 3 Press [**Shutter**].

Using burst modes

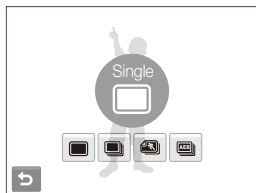


It can be difficult to take photos of fast-moving subjects or capture natural facial expressions and gestures of your subjects in photos. In these cases, select one of the burst modes.



1 In Shooting mode, select **Fn**▲ → ➤ →

2 Select an option.



Option	Description
	Single: Take a single photo.
	Continuous: <ul style="list-style-type: none">While you are pressing [Shutter], the camera takes photos continuously.The maximum number of photos depends on the capacity of your memory card.

Option	Description
	Motion Capture: <ul style="list-style-type: none">While you are pressing [Shutter], the camera takes VGA photos (6 photos per second; maximum of 30 photos).The camera automatically shows you the photos just taken and then saves them.
	AEB: <ul style="list-style-type: none">Take 3 photos with different exposures: normal, underexposed, and overexposed.Use a tripod to prevent blurry photos.

The options may differ depending on the shooting mode.

- You can use the flash and timer and ACB only when you select **Single**.
- When you select **Motion Capture**, the resolution will be set to VGA and the ISO speed will be set to **Auto**.

Improving your photos

Learn how to improve your photos by applying photo styles or colours, or make some adjustments.

Applying photo styles SCENE

Apply different styles to your photos, such as Soft, Vivid, or Forest.



Soft



Vivid

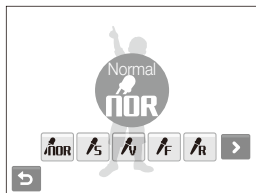


Forest



1 In Shooting mode, select **Fn**   **NOR**. (In some modes, **Fn**   (once or twice)  **NOR**.)

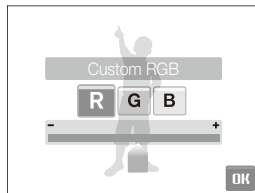
2 Select an option.

- Select  **RGB** to define your own RGB tone.



Defining your own RGB tone

- 1 From the photos style options, select  **RGB**  a colour (R: Red, G: Green, B: Blue).
- 2 Select the amount of the selected colour.



- 3 Select **OK**.

Adjusting your photos

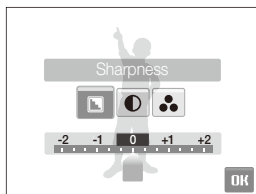
Adjust the sharpness, saturation, and contrast of your photos.

1 In Shooting mode, select **Fn**  twice .

2 Select an adjustment option.

- : Sharpness
- : Contrast
- : Saturation

3 Select a value to adjust the selected item.



Sharpness option	Description
-	Soften the edges on your photos (suitable for editing the photos on your computer).
+	Sharpen the edges to improve the clarity of your photos. This may also increase the noise on your photos.

Contrast option	Description
-	Decrease the colour and brightness.
+	Increase the colour and brightness.

Saturation option	Description
-	Decrease the saturation.
+	Increase the saturation.



Select **0** if you do not want to apply any effects. (suitable for printing)

Playback/Editing

Learn how to play back photos, videos, or voice memos and edit photos or videos. Also, learn how to connect your camera to your photo printer or TV.

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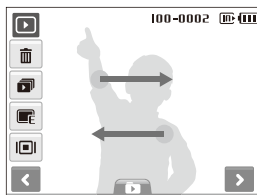
Playing back

Learn actions to play back photos, videos, or voice memos, and managing files.

Starting Playback mode

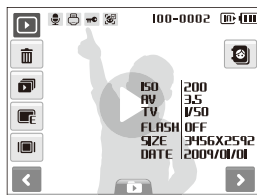
View photos or play videos and voice memos stored in your camera.

- 1 Press **[Playback]**.
 - The most recent file you have taken or recorded will be displayed.
 - If the camera is off, it will turn on.
- 2 Draw a horizontal bar left or right to scroll through files.
 - Select **◀** to view the previous file. Hold to view files quickly.
 - Select **▶** to view the next file. Hold to view files quickly.



If you want to view files stored in the internal memory, remove your memory card.

Display in Playback mode

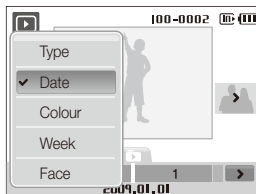


Icon	Description
	Photo includes a voice memo
	Video file
	Print order has been set (DPOF)
	Protected file
	Photo includes a registered face; Available only when you use a memory card
100-0001	Folder name – File name
	Delete files (p. 65)
	Play a slide show (p. 67)
	Edit photos (p. 70)
	Select a display type (p. 18)
	Register a face (p. 63); Available only when you use a memory card
	Play videos or voice memos (Video p. 68/Voice memo p. 69)

Viewing files by category in Smart Album

View and manage files by categories, such as date, file type, or week.






- 1 In Playback mode, select  → **DATE** → a category.



Option	Description
Type	View files by the file type.
Date	View files by the date they were saved.
Colour	View files by the dominant colour of the image.
Week	View files by the weekday they were saved.
Face	View files by recognised faces. (Up to 15 people)




It may take some time for the camera to open Smart Album or to change the category and reorganise files.

- 2 Select a date, file type, weekday, colour, or face.
 - You can also touch and hold  or  to scroll through dates, file types, weekdays, colours, or faces.
- 3 Select  or  to scroll through files.
- 4 Select  to return to the normal view.

Registering faces

You can register faces in your photos to classify them by faces in Smart Album. This feature is available only when you use a memory card.

- 1 In Playback mode, select a photo → .
- 2 Select **Yes**.
 - If there are multiple faces in the photo, select a face to register and select **Yes** → **OK**.



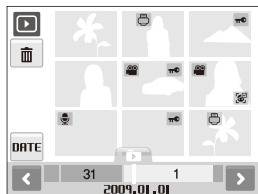
- You can register up to 3 faces.
- If you register a new face when there are 3 faces manually registered in Smart Album, the camera will replace the oldest face with the new one.

Viewing files as thumbnails

Scan thumbnails of files.



In Playback mode, push **[Zoom]** down to display 9 or 16 thumbnails (push **[Zoom]** up to return to the previous mode).



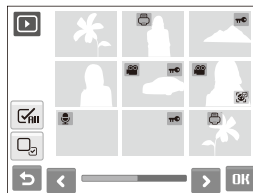
To	Do this
Scroll through files	Select < or > .
View a file	Select a thumbnail.
Delete files	Select [Delete] or drag a file to [Delete] . (p. 65)

Protecting files

Protect your files from accidental deletion.

To select and protect files,

- 1 In Playback mode, press **[MENU]**.
- 2 Select **Protect** → **Select**.
- 3 Select files you want to protect.
 - Select **[All]** to select all files.
 - Select **[Cancel]** to cancel your selection.



- 4 Select **OK**.


To protect all files,

- 1 In Playback mode, press **[MENU]**.
- 2 Select **Protect** → **All** → **Lock**.


Deleting files

Delete single files or all files at once. You cannot delete protected files.

To delete a single file,

- 1 In Playback mode, select a file → .
- 2 Select **Yes** to delete the file.

To delete multiple files,

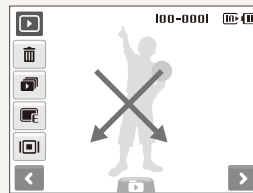
- 1 In Playback mode, select  → **Multiple Delete**.
- 2 Select files you want to delete.
 - Select ☒ to select all files on the current screen.
 - Select ☐ to cancel your selection.
- 3 Select **OK** → **Yes**.

To delete all files,

- 1 In Playback mode, press **[MENU]**.
- 2 Select **Delete** → **All** → **Yes**.

Alternate way to delete a file

While viewing a file in Playback mode, draw an X on the screen.



Using the recycle bin

If you activate the recycle bin, files you delete will be sent to the recycle bin instead of being deleted permanently. This applies to single files or selected files only—if you choose to delete all files, those files will not be sent to the recycle bin.

To activate the recycle bin,

- 1 In Playback mode, press **[MENU]**.
- 2 Select **Recycle Bin** → **On**.

To restore files from the recycle bin,

- 1 In Playback mode, press **[MENU]**.
- 2 Select **Recycle Bin** → **Retrieve**.



- This function does not work for videos or voice memos.
- It may take longer to delete files when using the recycle bin function.
- If you format the internal memory, all files in the recycle folder will be deleted.
- The recycle bin will hold up to 10 MB of files. Once you exceed the 10 MB limit, the camera asks you whether to empty the recycle bin. Select **Yes** to empty the recycle bin or **No** to delete only the current file.

Copying files to the memory card

You can copy files from the internal memory to a memory card.

- 1 In Playback mode, press **[MENU]**.
- 2 Select ♥ → **Copy to Card**.
- 3 Select **Yes** to copy files.

Viewing photos

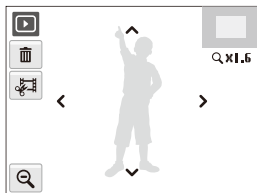
View a photo by zooming in on part of a photo or view photos as a slide show.

Enlarging a photo



In Playback mode, push **[Zoom]** up to enlarge a photo (push **[Zoom]** down to reduce a photo).

The enlarged area and zoom ratio are indicated on the top of the screen. The maximum zoom ratio may vary depending on the resolution. Select arrows to move the enlarged area.

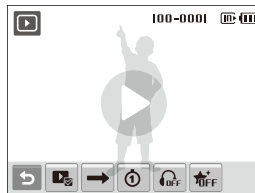


Icon	Description
	Delete the file.
	Crop the enlarged photo (it will be saved as a new file).
	Go back to the original view.

Starting a slide show

You can apply effects and audio to your slide show.

- 1 In Playback mode, select
- 2 Set a slide show effect.




Option	Description
	Images: Select files for your slide show.
	Play Mode: Select whether or not to loop the slide show. Interval: Set the interval between photos. <ul style="list-style-type: none">• This will be available when is selected in the Effect menu.• When used with an effect option other than , the interval will be set to 1 sec.
	Music: Select background audio.
	Effect: <ul style="list-style-type: none">• Select a transition effect.• Select for no effects.






- 3 Select to start the slide show.
 - Touch on the screen (except for option icons) to pause the slide show.
 - Select to switch to Playback mode.

Playing a video






You can play a video, capture an image from a video, or crop a video.

- 1 In Playback mode, select a video → .
- 2 Use the following icons to control playback.



Icon	Description
	Scan backward.
	Pause or resume playback.
	Stop playback.
	Scan forward.
	Adjust volume or mute sound.


Trimming a video during playback

- 1 Select  at the point where you want the new video to begin and select .
- 2 Select  to resume playback.
- 3 Select  at the point where you want the new video to end and select .
- 4 Select **Yes**.



- The original video should be at least 10 seconds long.
- The edited video will be saved as a new file.

Capturing an image during playback


- 1 Select **II** at the point where you want to save a still image.
- 2 Select .
- 3 Select **Yes**.








A captured image will have the same file size as the original video file and will be saved as a new file.

Playing a voice memo


Playing a voice memo

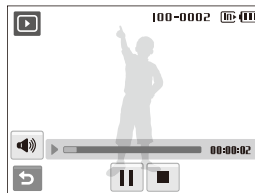
- 1 In Playback mode, select a voice memo → .
- 2 Use the following icons to control playback.






Icon	Description
	Scan backward.
	Pause or resume playback.
	Stop playback.
	Scan forward.
	Adjust volume or mute sound.

Playing a voice memo added to a photo

- 1 In Playback mode, select a photo that includes a voice memo → .
- 2 Use the following icons to control playback.



Icon	Description
	Pause or resume playback.
	Stop playback.
	Adjust volume or mute sound.

Editing a photo

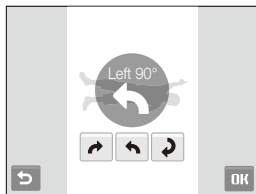
Perform photo editing tasks, such as rotating, resizing, eliminating red-eyes, and adjusting brightness, contrast, or saturation.



- Edited photos will be saved as new files.
- When you edit photos that are **7M** or larger (p. 41), they will be automatically resized to a lower resolution (except when resizing photos):
 - **9M** to **5M**
 - **8M** to **4M**
 - **7M** to **4M**

Rotating a photo

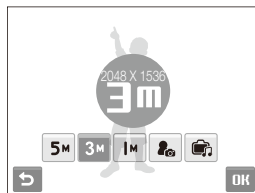
- 1 In Playback mode, select a photo →
- 2 Select → an option.



- 3 Select **OK**.

Resizing photos

- 1 In Playback mode, select a photo →
- 2 Select → an option.
 - Select to save the photo as a start image. (p. 88)
 - Select to save the photo as an MP3 player skin. (p. 84)



- 3 Select **OK**.



Available options differ depending on the size of the selected photo.

Editing colour

Apply a different colour tone to the photo, such as Soft, Vivid, or Forest.



Soft

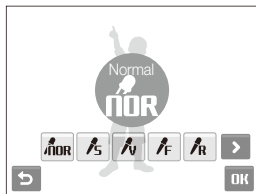


Vivid



Forest

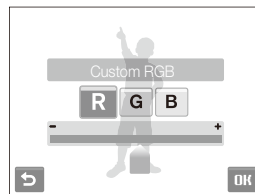
- 1 In Playback mode, select a photo →
- 2 Select → an option.
 - Select to define your own RGB tone.



- 3 Select **OK**.

Defining your own RGB tone



- 1 In Playback mode, select a photo → → .
- 2 Select → → a colour (R: Red, G: Green, B: Blue).
- 3 Select the amount of the colour.







- 4 Select **OK**.

Applying a special effect

Apply special effects to the photo, such as colour filters or noise effects.

- 1 In Playback mode, select a photo → .
- 2 Select  → an option.








Option	Description
	Colour Filter: Change background colours to black and white to make the main subject stand out.
	Elegant: Apply effects to the photo to make it brighter and softer.
	Add Noise: Add noise to the photo to give it an aged look.
	Face Retouch: Hide facial imperfection.

- 3 Select **OK**.




Correcting exposure problems

Adjust ACB (Auto Contrast Balance), brightness, contrast, or saturation; or remove red-eye.




Adjusting an image

- 1 In Playback mode, select a photo → .
- 2 Select  → an adjustment option.
 - : Brightness
 - : Contrast
 - : Saturation
- 3 Select a value to adjust the selected item.
(-: less or +: more)
- 4 Select **OK**.

Removing red-eye

- 1 In Playback mode, select a photo → .
- 2 Select  → .
- 3 Select **OK**.

Adjusting ACB (Auto Contrast Balance)


- 1 In Playback mode, select a photo → .
- 2 Select  → .
- 3 Select **OK**.



Creating a print order (DPOF)

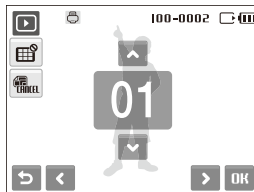
Select photos to be printed and set options, such as number of copies or paper size.





- The memory card can be taken to a print shop that supports DPOF (Digital Print Order Format) or you can print photos directly through a DPOF-compatible printer at home.
- Wide photos may print with the left and right edges cut off, so be aware of the dimensions of your photos.
- You cannot set the DPOF for the photos stored in the internal memory.

- 1 In Playback mode, press **[MENU]**.
- 2 Select  → **DPOF** → **Select**.
 - To print all files, select **All** and skip to step 5.

- 3 Select photos to print.
 - Select  to select all files.
 - Select  to cancel your selection.
- 4 Select **OK**.
- 5 Set DPOF options.



Option	Description
	Select whether to print the photos as thumbnails.
	Specify the size of the print.

- 6 Select  or  to set the number of copies.
- 7 Select **OK**.

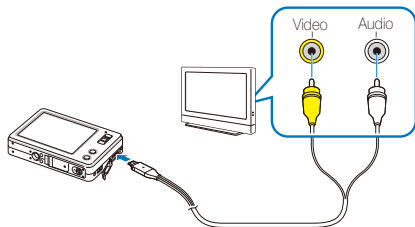


If you specify the print size, you can print photos only with DPOF 1.1-compatible printers.

Viewing files on a TV

Play back photos or videos by connecting your camera to a TV using the provided A/V cable.

- 1 Select a video signal output according to your country or region. (p. 90)
- 2 Turn off your camera and TV.
- 3 Connect your camera to your TV using the A/V cable.



- 4 Turn on your TV and select the video output mode using the TV remote control.
- 5 Turn on your camera and press **[Playback]**.

- 6 View photos or play videos using the touch screen on your camera.

- Locate the option you want on the TV screen and touch where the option is located on the camera screen. When a pointer appears on the option on the TV screen, select **OK** on the camera screen.

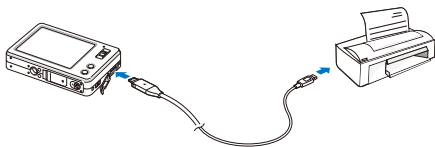


- On some TVs, digital noise may occur or part of an image may not appear.
- Images may not appear centred on the TV screen depending on your TV settings.
- You can capture photos or videos while the camera is connected to a TV.

Printing photos with a photo printer (PictBridge)

Print photos with a PictBridge-compatible printer by connecting your camera directly to the printer.



- 1 With the printer on, connect your camera to the printer with the USB cable.

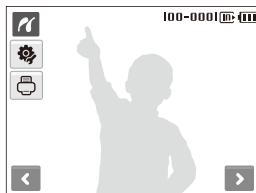


- 2 Turn on your camera.
- The printer recognises the camera automatically.







- If the camera fails to connect, a pop-up window will appear. Select **Printer**.
- If your printer has the mass storage feature, you must first set the USB mode to **Printer** in the settings menu. (p. 90)

- 3 Select  to print.
- Select  to set printing options. See "Configuring print settings" on page 76.

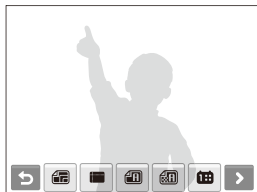









- 4 Select an option.

Option	Description
Current Photo	Print the currently selected photo. Skip to step 6.
Selected Photos	Print the photos you want.
All Photos	Print all photos. Skip to step 6.

- 5 Select  or  to scroll to a photo to print.
- 6 Select  or  to set the number of copies and select **OK**.
- If you selected to print the photos you want, repeat steps 5-6 for all photos to print.
- 7 Select **Yes** to confirm.
- Printing starts. Select **Cancel** to cancel printing.

Configuring print settings



Option	Description
	Size: Specify the size of the print.
	Layout: Create thumbnail prints.
	Type: Select the type of paper.
	Quality: Set the printing quality.
	Date: Set to print the date.
	File Name: Set to print the name of the file.
	Reset: Reset the print options.



Some options are not supported by some printers.

Multimedia

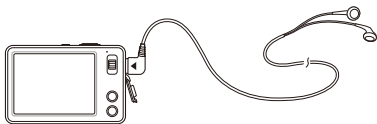
Learn to use Multimedia modes: Music mode, Videos mode, and Text Viewer mode.

Using Multimedia mode	78
Using the Music mode	80
Using the Videos mode	82
Using the Text Viewer mode	83
Multimedia mode settings menu	84

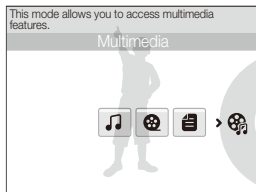
Using Multimedia mode

In Multimedia mode, you can listen to MP3s, play videos, or view text files. Before using Multimedia mode, you should transfer files to your camera or memory card. (p. 23)

- 1 Plug the supplied earphones into the multifunction jack.



- 2 In Shooting mode, select  → .



- 3 Select a mode.

- : Music
- : Videos
- : Text Viewer

- 4 Select a file to play.




- Files will be played automatically.



- Files will be listed by date they were saved.
- File names in unsupported languages will appear as "____ _".
- If there are more than 100 files in the folder or several large files, it may take longer to access a mode.
- Power save mode will not be active during playback except when viewing text files with **Auto Scroll** or **Back Music** off.
- The camera will enter Power save mode when you perform no operations for 30 seconds in the Music mode.
- Depending on the properties of your files, file information may not be available in the playlist.

Locking the touch screen





You can lock the touch screen to prevent any unwanted camera operations during playback.

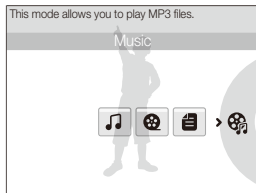
Select  to lock the screen. To unlock the screen, touch any where on the screen and drag  to  on the pop-up window.






- Even though you lock the screen, you can still operate [POWER] and use the USB cable.
- Press any button to deactivate the Power save mode.

Switching to another Multimedia mode

- 1 Select , , or  while an MP3 or video file is being played or text file is being viewed.
- 2 Select .
- 3 Select a mode.



Deleting multimedia files

- 1 In the file list, select .
- 2 Select files to delete.
 - Select  to delete all files.
 - Select  to cancel your selection.
- 3 Select **OK**.

Using the Music mode

Learn how to play MP3 files, control playback, and taking a photo during playback.

1 Access the Music mode and play a file. (p. 78)



Icon	Description
192K	Bit rate
	Play mode
	Remaining battery capacity
00:00:01/00:04:02	Play time

2 Use the following icons and buttons to control playback.

Select	To
	Change the mode.
	Change the equaliser type.
	Lock the screen.
	Adjust volume or mute sound.
	Open the playlist.
	Skip backward.
	Pause or resume playback.
	Skip forward.
[MENU]	Change the Music mode settings.

About VBR

Variable Bit Rate (VBR) is an encoding method that keeps music at a stable quality level by adjusting the compression rate according to the complexity of the encoded audio.

Starting a slide show while listening to music

- 1 Press **[MENU]** during playback.
- 2 Select **Interval**.
- 3 Select an interval between photos.
- 4 Select **Slide Show**.
- 5 Select a play mode option.

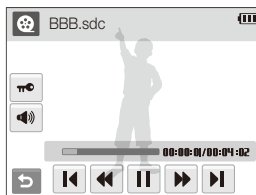
Option	Description
Play	Play a slide show and return to the player screen.
Repeat	Loop a slide show.

- 6 To cancel the slide show, select .

Using the Videos mode

Learn how to play videos and control playback.

1 Access the Videos mode and play a file. (p. 78)



Icon	Description
	Remaining battery capacity
	Play time

2 Use the following icons and buttons to control playback.

Select	To
	Change the mode.
	Lock the screen.
	Adjust volume or mute sound.
	Open the playlist.
	Skip backward.
	Scan backward (while playing)*.
	Stop or resume playback.
	Skip forward.
	Scan forward (while playing)*.
[MENU]	Change the Videos mode settings.

* You can scan a file quickly to the point that you want to play.

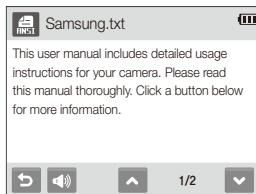


- All buttons except for [POWER] will not work in the first and last 2 seconds of the playback.
- Convert subtitle files (.smi) using Samsung Converter to display subtitles. (p. 25)
- Some videos may be paused during playback and resumed automatically. It is not a malfunction.
- During playback, the playback controls disappears automatically after a specified time. To show the controls again, touch anywhere on the screen.

Using the Text Viewer mode

Learn how to view text files.

1 Access the Text Viewer mode and view a file. (p.78)



Icon	Description
	Remaining battery capacity
1/2	Current page/Number of pages

2 Use the following icons and buttons to control playback.

Select	To
	Change the mode. This icon indicates the encoding type*.
	Open the file list.
	Adjust volume or mute sound (if the background music turns on).
	<ul style="list-style-type: none">Go to the previous page.Skip 10 pages (hold).
	<ul style="list-style-type: none">Go to the next page .Skip 10 pages (hold).
[MENU]	Change the Text Viewer mode settings.

* The encoding type will be displayed as or .

- **ANSI (American National Standards Institute) type:** you have to set the language to match that of the text file. (p. 85)
- **Unicode type:** you do not have to set the language to match that of text file.







- If text is displayed incorrectly, save it as an ANSI file using a text editor on your computer (such as Notepad for Windows).
- Some characters or symbols may not be displayed correctly.
- Text files that are improperly encoded may be corrupted.
- A file that is bigger than 10 MB may take longer to open or may not open. Divide large files into multiple, smaller files for faster access.

Multimedia mode settings menu





Learn how to change the settings for each multimedia mode.

- 1 Press **[MENU]** while an MP3 or video file is being played or a text file is being viewed.
- 2 Select a menu.
- 3 Select an option.





* Default

Menu	Available mode	Description
Resume	  	Set to start the last music file played or resume a video or text file. (Off, On*)
Play Mode		Set to repeat playback or play files randomly. <ul style="list-style-type: none"> • Normal*: Play all files in the current folder once. • Repeat: Repeat all files in the current folder. • Repeat One: Repeat the current file. • Shuffle: Play files in the current folder in random order.

* Default

Menu	Available mode	Description
Background		Select a skin for the player screen. <ul style="list-style-type: none"> • Skin 1*, Skin 2: Display a default image stored in the internal memory. • User 1, User 2: Display an image saved as an MP3 player skin in the edit menu. (p. 70)
Slide Show		Start a slide show while listening to an MP3. (p. 81)
Interval		Set the length of time to skip photos in a slide show. (2 sec* , 3 sec , 5 sec)
Seeking		Set the length of time to skip when scanning backward or forward. (Normal* , 30 sec , 1 min , 3 min , 5 min , 10 min)

* Default

Menu	Available mode	Description
Auto Scroll		Set a delay before scrolling to the next line of text. (Off* , 1 , 2 , 3 , 4 , 5)
Back Music		Play background music while viewing text files. <ul style="list-style-type: none">• Off*: Do not play music.• On: Play the last MP3 file played.
Language		Select a language to match that of the text file.
Delete All		Delete all files of a selected Multimedia mode. (No , Yes)

Appendixes

Refer to settings, error messages, specifications, and maintenance tips.

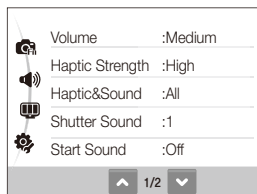
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Settings menu

Learn about various options to configure your camera's settings.

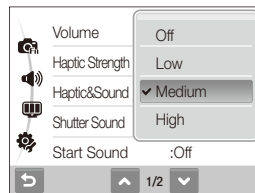
Accessing the settings menu


- 1 In Shooting or Playback mode, press [MENU].
- 2 Select a menu.



Icon	Description
	Sound settings: Set various camera sounds and volume. (p. 88)
	Display settings: Customise the display settings, such as language and brightness. (p. 88)
	Camera settings: Change the settings for the camera system, such as memory format, default file name, and USB mode. (p. 89)



- 3 Select an option and save your settings.



- 4 Select  to return to the previous screen.



Sound settings

* Default

Item	Description
Volume	Adjust the volume of any sound. (Off, Low, Medium* , High)
Haptic Strength	Select a level of the vibration when you touch on the screen. (Low, Medium, High*)  In low temperatures, the vibration level may feel lower than your actual setting. It is not a malfunction.
Haptic&Sound	Select whether the camera will vibrate or sound when you touch on the screen. (Off, Haptic, Sound, All*)  In Multimedia mode, the camera will only vibrate.
Shutter Sound	Select a sound to be emitted when pressing the shutter button. (Off, 1*, 2, 3)
Start Sound	Select a sound to be emitted when turning on your camera. (Off*, 1, 2, 3)
AF Sound	Set to emit a sound to be emitted when half-pressing the shutter button. (Off, On*)
Self-Portrait	Set to emit a sound when the camera detects your face. (Off, On*)


Display settings

* Default


Item	Description
Language	Select a language for the display text.
Function Description	Display a brief description of an option or menu. (Off, On*)
Start Image	Set a start image to display when the camera turns on. <ul style="list-style-type: none"> • Off*: Display no start image. • Logo: Display a default image stored in the internal memory. • User Image: Display the image you want. (p. 70)  <ul style="list-style-type: none"> • Only one start image will be saved in the internal memory. • If you select a new photo as a start image or reset your camera, the current image will be deleted. • A wide image or image in 3:2 ratio cannot be set as a start image.
Display Brightness	Adjust the brightness of the screen. (Auto* , Dark, Normal, Bright)  Normal is fixed in Playback mode even if Auto is selected.
Quick View	Set the duration for reviewing a captured image or video before returning to Shooting mode. (Off, 0.5 sec*, 1 sec, 3 sec)
Power Save	If you perform no operations for 30 seconds, the camera automatically switches to Power save mode (press any button to deactivate the Power save mode). (Off*, On)

Camera settings



* Default

Item	Description
Format	<p>Format the internal memory and the memory card (all files-including the protected files-will be deleted). (No, Yes)</p> <p> If you use a memory card used with cameras from different manufacturers or a memory card reader, or one formatted on a computer, your camera may read the card incorrectly. Format the card before using it.</p>
Reset	<p>Reset menus and shooting options (date and time, language, and video output settings will not be reset). (No, Yes)</p>
Date&Time	<p>Set the date and time and select a date format. (yyyy/mm/dd, mm/dd/yyyy, dd/mm/yyyy, Off*)</p>
Time Zone	<p>Select a region and set the daylight-saving time (DST).</p>

* Default

Item	Description
	<p>Specify how to name files.</p> <ul style="list-style-type: none"> • Reset: Set the file number to start from 0001 when inserting a new memory card, formatting a memory card, or deleting all files. • Series*: Set the file number to follow the previous file number when inserting a new memory card, formatting a memory card, or deleting all files.
File No.	<p> • The default name of the first folder is 100SSCAM and the default name of the first file is SDC10001.</p> <ul style="list-style-type: none"> • The file number increases one by one from SDC10001 to SDC19999. • The folder number increases one by one from 100SSCAM to 999SSCAM. • The maximum number of files that can be stored in one folder is 9999. • The camera defines file names according to the Digital rule for Camera File system (DCF) standard. If you change the names of files intentionally, the camera may not play back the files.

* Default


Item	Description
Imprint	<p>Set whether to display the date and time on your photos when printing. (Off*, Date, Date & Time)</p>  <ul style="list-style-type: none"> The date and time will be displayed on the bottom-right corner of the photo in yellow. The date and time may not be printed on some printer models. If you select T in the SCENE mode, the date and time will not be displayed.
Auto Power Off	<p>Set the camera to automatically turn off when you are not using it. (Off, 1 min, 3 min*, 5 min, 10 min)</p>  <ul style="list-style-type: none"> Your settings will not change after replacing the battery. The camera will not automatically turn off when: <ul style="list-style-type: none"> it is connected to a computer or printer you are playing a slide show or videos you are recording a voice memo
AF Lamp	<p>Set an assistant light to help you focus in dark places. (Off, On*)</p>

* Default

Item	Description
Video Out	<p>Set the video signal output according to your region.</p> <ul style="list-style-type: none"> NTSC*: USA, Canada, Japan, Korea, Taiwan, Mexico. PAL (supports only BDGHI): Australia, Austria, Belgium, China, Denmark, Finland, Germany, England, Italy, Kuwait, Malaysia, New Zealand, Singapore, Spain, Sweden, Switzerland, Thailand, Norway.
USB	<p>Set the function to use via a USB connection with a computer or printer.</p> <ul style="list-style-type: none"> Auto*: Set your camera to select a USB mode automatically. Computer: Connect your camera to a computer for transferring files. Printer: Connect your camera to a printer for printing files.

Error messages

When the following error messages appear, try these remedies.

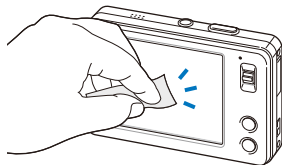
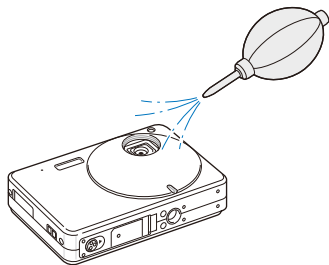
Error message	Suggested remedies
Card Error	<ul style="list-style-type: none">• Turn off your camera and then turn it on again.• Remove your memory card and insert it again.• Format your memory card. (p. 89)
Card Locked	Unlock the memory card. 
DCF Full Error	File names do not match the DCF standard. Transfer the files on the memory card to your computer and format the card. (p. 89)
File Error	Delete the damaged file or contact a service centre.
Low Battery	Insert a charged battery or recharge the battery.
Low Light	Turn on the flash. (p. 45)
Memory Full	Delete unnecessary files or insert a new memory card.
No Image File	Take photos or insert a memory card that has some photos.

Camera maintenance

Cleaning your camera

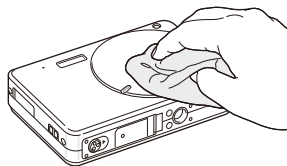
Camera lens and touch screen

Use a blower brush to remove dust and wipe the lens gently with a soft cloth. If any dust remains, apply lens cleaning liquid to a piece of cleaning paper and wipe gently.



Camera body

Wipe gently with a soft, dry cloth.

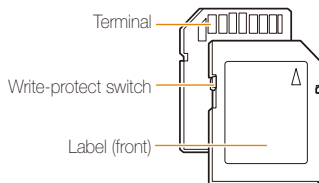


- Never use benzene, thinners, or alcohol to clean the device. These solutions can damage the camera or cause it to malfunction.
- Make sure to close the lens cover before cleaning.

About memory cards

Memory cards you can use

You can use SD (Secure Digital), SDHC (Secure Digital High Capacity), or MMC (MultiMedia Card) memory cards.



You can prevent files from being deleted by using a write-protect switch on the SD or SDHC card. Slide the switch down to lock or slide it up to unlock. Unlock the card when shooting.

Memory card capacity

The memory capacity may differ depending on shooting scenes or shooting conditions. These capacities are based on a 1 GB SD card:

	Size	Super fine	Fine	Normal	30 FPS	20 FPS	15 FPS
P h o t o s	9M	194	376	546	-	-	-
	8M	221	426	611	-	-	-
	7M	264	510	744	-	-	-
	5M	343	637	870	-	-	-
	3M	532	895	1,211	-	-	-
	1M	1,716	2,059	2,376	-	-	-
* V i d e o s	800	-	-	-	-	Approx. 30' 9"	-
	640	-	-	-	Approx. 35' 54"	-	Approx. 69' 52"
	320	-	-	-	Approx. 47' 24"	-	Approx. 92' 12"

* The recordable time may vary if you use the zoom.


About the battery

Use only Samsung-approved batteries.

Battery specifications

Mode	SLB-0937
Type	Lithium-ion battery
Cell capacity	900 mAh
Voltage	3.7 V
Charging time (when the camera is switched off)	Approx. 150 min

Battery life

Average time / Number of photos		Test conditions (when the battery is fully charged)
Photos	Approx. 130 min/ Approx. 260	<p>This is measured under the following conditions: in the  mode, 9M resolution, Fine quality.</p> <ol style="list-style-type: none"> 1. Set the flash option to Fill in, take a single shot, and zoom in or out. 2. Set the flash option to Off, take a single shot, and zoom in or out. 3. Perform steps 1 and 2 for 30 seconds and repeat for 5 minutes. Then turn off the camera for 1 minute. 4. Repeat steps 1 to 3.
Videos	Approx. 130 min	Record videos at 800 x 592 resolution and 20 fps.
MP3	Approx. 330 min	Play files with the screen turned off.
PMP	Approx. 190 min	Play files with normal playback.
Text viewer	Approx. 210 min	View files with background music and auto scroll.

- The figures above are measured by Samsung's standards and may differ depending on actual usage.
- Several videos were recorded in succession to determine the total recording time.

Notes about charging the battery

- If the indicator light is off, make sure that the battery is inserted correctly.
- Turn off your camera when charging.
- Turn on your camera after charging the battery for more than 10 minutes.
- Using the flash or recording videos depletes the battery quickly. Charge the battery until the indicator light turns green.
- If the indicator light blinks in red or does not illuminate, reconnect the cable, or remove the battery and insert it again.
- If you charge the battery when it is warm, the indicator light may turn orange. Charging will start when the battery cools down.



Notes about charging with a computer connected

- Use only the provided USB cable.
- The battery may not be charged when:
 - you use a USB hub
 - other USB devices are connected to your computer
 - you connect the cable to the port on the front side of your computer
 - the USB port of your computer does not support the power output standard (5 V, 500 mA)

Before contacting a service centre

If you are having trouble with your camera, try these troubleshooting procedures before contacting a service centre. If you have attempted the troubleshooting solution and are still having problems with your device, contact your local dealer or service centre.

Situation	Suggested remedies
Cannot turn on the camera	<ul style="list-style-type: none">• Make sure that the battery is inserted.• Make sure that the battery is inserted correctly.• Charge the battery.
The power turns off suddenly	<ul style="list-style-type: none">• Charge the battery.• Your camera may be in Power save mode. (p. 88)• The camera may turn off to prevent the memory card from being damaged due to an impact. Turn on your camera again.
The camera is losing battery power quickly	<ul style="list-style-type: none">• The battery may lose power more quickly in low temperatures (below 0° C). Keep the battery warm by putting it into your pocket.• Using the flash or recording videos depletes the battery quickly. Recharge if needed.• Batteries are consumable parts that must be replaced over time. Get a new battery if the battery life is diminishing quickly.

Situation	Suggested remedies
Cannot take photos	<ul style="list-style-type: none">• There is no space on the memory card. Delete unnecessary files or insert a new card.• Format the memory card. (p. 89)• The memory card is defective. Get a new memory card.• The memory card is locked. Unlock the card. (p. 91)• Make sure that the camera is switched on.• Charge the battery.• Make sure that the battery is inserted correctly.
The camera freezes	Remove the battery and insert it again.
The flash does not work	<ul style="list-style-type: none">• The flash option may be set to Off. (p. 45)• You cannot use the flash in the , , or some SCENE modes.
The flash fires unexpectedly	The flash may fire due to static electricity. This is not a malfunction of the camera.
The date and time are incorrect	Set the date and time in the display settings menu.

Situation	Suggested remedies
The touch screen or buttons do not work	Remove the battery and insert it again.
The memory card has an error	The memory card has not been reset. Format the card. (p. 89)
Cannot play back files	If you change the name of a file, your camera may not play the file (the name of the file should meet the DCF standard). If you encounter this situation, play back files on your computer.
The photo is blurry	<ul style="list-style-type: none"> • Make sure that the focus option you set is suitable for close-up shots. (p. 47) • Make sure that the subject is within range of the flash. (p. 98) • Make sure that the lens is clean. If not, clean the lens. (p. 92)
The colours in the photo do not match the actual scene	An incorrect white balance can create unrealistic colour. Select the proper white balance option to suit the light source. (p. 56)
The photo is too bright	<ul style="list-style-type: none"> • Your photo is overexposed. Adjust the exposure value. (p. 53) • Turn off the flash. (p. 45)

Situation	Suggested remedies
The TV does not display your photos	<ul style="list-style-type: none"> • Make sure that the camera is correctly connected to the external monitor with the A/V cable. • Make sure that your memory card contains photos.
Your computer does not recognise your camera	<ul style="list-style-type: none"> • Make sure that the USB cable is connected correctly. • Make sure that your camera is switched on. • Make sure that you are using a supported operating system.
Your computer disconnects the camera while transferring files	The file transmission may be interrupted by static electricity. Disconnect the USB cable and connect it again.

Camera specifications

Image sensor			
Type	1/2.5" (Approx. 1.02 cm) CCD		
Effective pixels	Approx. 9.0 mega-pixels		
Total pixels	Approx. 9.2 mega-pixels		
Lens			
Focal length	Samsung lens 3X Inner Zoom f = 6.3 - 18.9 mm (35 mm film equivalent: 38 - 114 mm)		
F-stop range	F3.5 (W) - F4.5 (T)		
Digital zoom	<ul style="list-style-type: none">Still image mode: 1.0X - 5.0XPlay mode: 1.0X - 10.8X (depending on image size)		
Display			
Type	h.VGA TSP (Registive)		
Feature	3.0" (7.62 cm) 460K		
Focusing			
Type	TTL auto focus (Multi AF, Center AF, Face Recognition AF, Face Detection AF, Touch AF)		
Range		Wide (W)	Tele (T)
	Normal	80 cm - infinity	
	Macro	5 cm - 80 cm	50 cm - 80 cm
	Auto Macro	5 cm - infinity	50 cm - infinity
	Super Macro	1 cm - 5 cm	-

Shutter speed

- 1 - 1/2,000 sec.
- AEB, Continuous: 1/4 - 1/2,000 sec.
- Night: 16 - 1/2,000 sec.

Exposure

Control	Program AE
Metering	Multi, Spot, Center-weighted
Compensation	± 2 EV (1/3EV steps)
ISO equivalent	Auto, 80, 100, 200, 400, 800, 1600, 3200

Flash

Mode	Off, Auto, Red-eye, Fill in, Slow Sync, Red-eye Fix
Range	<ul style="list-style-type: none"> • Wide: 0.3 m - 4.2 m (ISO Auto) • Tele: 0.5 m - 3.3 m (ISO Auto)
Recharging time	Approx. 5 sec.

Shake reduction

Digital Image Stabilisation (DIS)

Effect

Shooting mode	<ul style="list-style-type: none"> • Photo Style Selector: Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB • Image Adjust: Sharpness, Contrast, Saturation
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White Balance	
Auto WB, Daylight, Cloudy, Fluorescent_H, Fluorescent_L, Tungsten, Custom Set	
Shooting	
Photos	<ul style="list-style-type: none"> • Modes: Smart Auto (Portrait, Night Portrait, Backlight Portrait, Backlight, Landscape, White, Motion, Tripod, Night, Macro, Macro Text), Auto, Program, DIS, Movie, Scene (Night, Portrait, Children, Landscape, Text, Close Up, Sunset, Dawn, Backlight, Firework, Beach & Snow, Frame Guide, Beauty Shot) • Drive: Single, Continuous, Motion Capture, AEB • Timer: 2 sec, 10 sec, Double, Motion Timer
Videos	<ul style="list-style-type: none"> • Format: MPEG-4 with audio (Max recording time: 2 hours) • Size: 800 x 592 (20 FPS), 640 x 480 (30 FPS, 15 FPS), 320 x 240 (30 FPS, 15 FPS) • 3X Optical zoom with sound recording • Frame rate: 20 FPS, 30 FPS, 15 FPS • Photo style selector, White balance, Video stabilisation • Video editing (embedded): Pause during recording, Still image capture, Time trimming

Playback	
Type	Single image, Thumbnails, Multi slide show, Movie clip, Smart Album
Edit	Resize, Rotate, Photo Style Selector, Image Adjust
Effect	<ul style="list-style-type: none"> • Photo Style Selector: Normal, Soft, Vivid, Forest, Retro, Cool, Calm, Classic, Negative, Custom RGB • Image Adjust: ACB, Red-eye Fix, Brightness, Contrast, Saturation
Voice recording	
<ul style="list-style-type: none"> • Voice Recording (Max. 10 hours) • Voice Memo in a photo (Max. 10 sec.) 	
Storage	
Media	<ul style="list-style-type: none"> • Internal memory: Approx. 70 MB • External memory (Optional) <ul style="list-style-type: none"> - SD card (up to 4 GB guaranteed) - SDHC card (up to 8 GB guaranteed) - MMC Plus (up to 2 GB guaranteed) <p>Internal memory capacity may not match these specifications.</p>
File format	<ul style="list-style-type: none"> • Photo: JPEG (DCF), EXIF 2.21, DPOF 1.1, PictBridge 1.0 • Video: AVI (MPEG-4) • Audio: WAV

Image size	For 1GB SD				
			Super fine	Fine	Normal
	9M	3456 x 2592	194	376	546
	8M	3456 x 2304	221	426	611
	7M	3456 x 1944	264	510	744
	5M	2592 x 1944	343	637	870
	3M	2048 x 1536	532	895	1,211
	1M	1024 x 768	1,716	2,059	2,376
	These figures are measured under Samsung's standard conditions and may vary depending on shooting conditions and camera settings.				
Multimedia					
MP3	<ul style="list-style-type: none">• Frequency: 20 Hz - 20 KHz• Earphone port: 20 pin port (Stereo type)• Output maximum volume: Left 40 mW + Right 40 mW (16Ω)• Noise ratio: 88 dB with 20 KHz LPF• File format: MP3 (MPEG-1/2/2.5 Layer 3),• Bit rate: 48 - 320 Kbps (Including VBR)• Sound effect: SRS				

PMP	<ul style="list-style-type: none"> Movie: Xvid MPEG-4 (Using Samsung Converter S/W) Audio: MPEG Layer 2 (Using Samsung Converter S/W) Play mode: Seeking in play (Max. 32X), Skipping in play, Auto skipping after one file played, Remember last played frame
Text Viewer	<ul style="list-style-type: none"> File: Text file (TXT extension name, up to 99,999 pages) File format: Window ANSI (Windows 98 or later), Unicode/Unicode (Big-Endian)/UTF-8 (Windows 2000/XP) Mac ANSI, Unicode (UTF-16) Function: Auto scroll (1 - 5), Background music
Interface	
Digital output connector	USB 2.0
Audio output	Mono
Video output	AV: NTSC, PAL (selectable)
DC power input connector	20 pin
Power source	
Rechargeable battery	Lithium-ion battery (SLB-0937, 900 mAh)
AC adapter	Power adapter (SAC-47), USB cable (SUC-C7H)
The power source may differ depending on your region.	

Dimensions (W x H x D)

91 x 60 x 19 mm

Weight

124.2 g (without battery and memory card)

Operating temperature

0 - 40° C

Operating humidity

5 - 85 %

Software

Samsung Converter, Samsung Master, Adobe Reader

Specifications are subject to change without prior notice.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



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This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

The rechargeable battery incorporated in this product is not user replaceable. For information on its replacement, please contact your service provider.



Samsung Eco-mark

It is Samsung's own symbol mark is used to effectively communicate Samsung's environmental friendly product activities to the consumers. The mark represents Samsung's continuous effort on development of environmental conscious products.

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